

ANNUAL REPORT FOR THE YEAR ENDED 31 DECEMBER 2020

TABLE OF CONTENTS

Director's Report	3
Auditor's Independence Declaration	18
Consolidated Statement of Profit or Loss and Other Comprehensive Income	19
Consolidated Statement of Financial Position	20
Consolidated Statement of Changes in Equity	21
Consolidated Statement of Cash Flows	22
Notes to the Financial Statements	23
Director's Declaration	54
Independent Auditor's Report	55
Shareholder Information	59
Corporate Directory	62

(ABN 75 117 387 354)

DIRECTORS' REPORT

In accordance with a resolution of directors, the directors present their report together with the Annual Report of HCD Energy Limited (HCD) and its wholly owned subsidiaries (together referred to as the 'Group') for the financial year ended 31 December 2020 and the Independent Audit Report thereon. In order to comply with the provisions of the *Corporations Act 2001*, the directors report as follows:

1. INFORMATION ON DIRECTORS

The directors of HCD at any time during or since the end of the financial year were:

(a) STEPHEN MITCHELL

Executive Director (from 12 January 2016 to 31 March 2020) Non-executive Director (from 1 April 2020)

Special responsibilities:

Executive Chairman (to 31 March 2020) Non-executive Chairman (from 1 April 2020)

Experience:

Stephen has a Masters Degree in International Economics and Foreign Policy from John Hopkins University in Washington DC. following which he spent 10 years as a natural resources specialist at investment banks and advisory firms in the US and Australia. From 1999-2011 Stephen was the Managing Director of Molopo Energy Ltd, an ASX-listed oil and gas Company that held assets in Australia, Canada, USA, China, India and South Africa. Under his stewardship, Molopo generated a 10 fold increase in shareholder value and expanded its market capitalisation from less than \$1 million into an ASX 200 company.

Directorships held in other listed entities in the last three years:

None

(b) NICK CASTELLANO

Executive Director (appointed 6 April 2017)

Special responsibilities:

Member of the Remuneration and Nomination Committee Chairman of the Technical Advisory Board

Experience:

Nick is a Hydrocarbon Dynamics founder and is the inventor of the HCD Multi-Flow® technology. Nick spent a decade in the nuclear power program of the United States Navy, ultimately becoming the leading chief of the reactor laboratory division of the nuclear powered aircraft carrier the Dwight D. Eisenhower, where he assumed responsibilities for chemistries in the reactor plants. After leaving, Nick developed cutting edge chemistry and patented processes in the industrial water and oil industries. In the industrial water industry Nick founded an industrial water treatment company with clients such as Pepsi Cola, Coca Cola and United Dairymen. In the oil industry Nick focused on oil well chemistry, developing and founding the technology of HCD. Nick has a Bachelor of Science Degree in Biochemistry, a Masters Degree in Biochemistry and completed his MA PHD at Canterbury University.

Directorships held in other listed entities in the last three years:

None.

(ABN 75 117 387 354)

(c) RAY SHORROCKS

Non-Executive Director (appointed 12 January 2016)

Special responsibilities:

Chairman of the Remuneration and Nomination Committee Member of the Audit Committee

Experience:

Mr Shorrocks has more than 22 years' experience in corporate finance and has advised a diverse range of mining and resource companies during his career at Patersons Securities Limited, one of Australia's largest full-service stockbroking and financial services firms. He has been instrumental in managing and structuring equity capital raisings as well as having advised extensively in the area of mergers and acquisitions.

Directorships held in other listed entities in the last three years:

He also holds, or has held, directorships in the following ASX listed companies in the last three years:

- Alicanto Minerals (appointed 7 August 2020)
- Auteco Minerals (appointed 28 January 2020)
- Galilee Energy Limited (appointed 2 December 2013).
- Bellevue Gold Limited (resigned 9 September 2019); and
- Estrella Resources Limited (resigned 1 February 2019).

(d) ALLAN RITCHIE

Non-Executive Director (appointed 6 April 2017)

Special responsibilities:

Member of the Audit Committee

Experience:

Allan has served as a director of several private and public listed companies and is a principal of his own firm where he focuses on asset acquisitions and off-take arrangements in the energy, resources and infrastructure space. Allan is an investment banking professional with a career spanning 30 years of origination and structuring. He held senior positions at Westpac, ANZ Bank, HSBC and BNP Paribas in London, New York and Asia Pacific. He engages with the chief executives of major corporations and state-owned enterprises spanning the global resources, energy and infrastructure sectors. He was previously voted number one in the BRW Magazine poll of Financial Markets, bankers in Australia.

Allan graduated from the University of Technology Sydney with a Bachelor of Business and has a post graduate Diploma in Applied Finance from FINSIA.

Directorships held in other listed entities in the last three years:

He also holds, or has held, directorships in the following ASX listed companies in the last three years:

• Adavale Resources Limited (resigned 10 December 2019).

(e) ANDREW SEATON

Non-Executive Director (appointed 16 August 2019)

Special Responsibilities:

Chairman of Audit Committee

Member of the Remuneration and Nomination Committee

(ABN 75 117 387 354)

Experience:

Andrew is an experienced energy executive with a background in finance, project management and investment banking. Andrew was a senior executive with Santos Limited for twelve years, the last six of which he served as Chief Financial Officer. Prior to joining Santos, Andrew worked in investment banking with Merrill Lynch in Melbourne and New York. His early career included 10 years as a process engineer and project manager across a range of upstream oil and gas projects and operating plants. Andrew has an Honours Degree in Chemical Engineering and a Graduate Diploma in Business Administration.

Directorships held in other listed entities in the last three years:

He also holds, or has held, directorships in the following ASX listed companies in the last three years:

• Strike Energy Limited (appointed 18 August 2017).

2. COMPANY SECRETARY

Ms Julie Edwards was appointed Company Secretary on 1 July 2016 and continues in office at the date of this report.

Julie holds a Bachelor of Commerce degree, is a member of CPA Australia and holds a Public Practice Certificate. Ms Edwards is a director and manager of Lowell Accounting Services and also provides company secretarial services for a number of other ASX listed companies and unlisted companies.

3. DIRECTORS' MEETINGS:

The number of meetings of the Board and of each Board Committee held during the year (while each Director was a Director or committee member) and the number of meetings attended by each director are set out below:

	Board Of	Directors	Audit Co	mmittee	Remuneration & Nomination Committee		
	Held	Attended	Held	Attended	Held	Attended	
Stephen Mitchell	11	11	-	-	-	-	
Nicholas Castellano	11	10	-	-	1	1	
Ray Shorrocks	11	11	3	3	1	1	
Allan Ritchie	11	11	3	3	-	-	
Andrew Seaton	11	11	3	3	1	1	

This disclosure is made in accordance with s.300(10)(c) of the Corporations Act 2001.

4. REMUNERATION REPORT - AUDITED

The directors of the Group present the Remuneration Report, prepared in accordance with section 300A of the *Corporations Act 2001*, AASB124 *Related Party Disclosures* and Principle 8 of the ASX Corporate Governance Principles and Recommendations. This report outlines the remuneration arrangements in place for the Non-executive Directors, Executive Directors and other Key Management Personnel of the Group.

This report has been audited, as required by section 308(3C) of the Corporations Act 2001.

Remuneration Committee

The Board has established a Remuneration Committee which provides advice and specific recommendations on the remuneration packages and other terms of employment for Executive Directors, other senior executives; and Non-executive Directors including:

- the level of Non-executive Director fees;
- the amount and nature of remuneration arrangements for Executive Directors and other executives; and
- the type and nature of incentive arrangements including key performance targets effecting the remuneration of the executive team.

(ABN 75 117 387 354)

The objective of the Remuneration Committee is to ensure that the remuneration policies and arrangements are designed to ensure that the level and composition of remuneration is competitive, reasonable and appropriate for the results delivered and to attract and maintain talented and motivated directors and employees.

The level of remuneration and other terms and conditions of employment for Executive Directors and Company executives are reviewed annually having regard to performance and relevant comparative information, and are approved by the Board after the Remuneration Committee has sought independent professional advice, as required. In this respect, consideration is given to normal commercial rates of remuneration for similar levels of responsibility.

The Corporate Governance Statement provides further information on the role of this Committee.

Key Management Personnel

Key Management Personnel includes:

Stephen Mitchell Non-Executive Chairman (Executive Chairman to 31 March 2020; Non-Executive Chairman

from 1 April 2020)

Nicholas Castellano Executive Director
Ray Shorrocks Non-executive Director
Allan Ritchie Non-executive Director
Andrew Seaton Non-executive Director

William Tarantino CEO – Chemical Division (appointed 2 January 2020)

Julie Edwards¹ Company Secretary and Financial Controller

Non-executive Director Remuneration

The Board's policy is to remunerate Non-executive Directors at market rates for time, commitment and responsibilities. The Remuneration Committee determines payments to the Non-executive Directors and reviews their remuneration annually, based on market practice, duties and accountability. Independent external advice is sought when required. No advice was sought during the 2020 financial year.

The maximum aggregate amount of fees that can be paid to Non-executive Directors is subject to approval by shareholders at the Annual General Meeting. The latest determination was in the ASX announcement on 4 February 2016 after shareholders approved an aggregate pool limit of \$300,000.

Fees for Non-executive Directors include a base director fee, performance rights for service tenure, and performance rights based on the performance of the Group. Further, to align the Directors' interests with shareholder interests, the Directors are encouraged to hold shares in the Group. There is no minimum holding prescribed in the Constitution.

Non-executive Directors' fees (inclusive of superannuation) have generally been paid on the following basis:

2020	2019
\$	\$
30,000	30,000
72,000	72,000
12,000	12,000
6,000	6,000
	72,000 12,000

Andrew Seaton's non-executive director fees were paid in shares from 1 April 2020 to 31 December 2020 with the number of shares based on the Volume Weighted Average Price over the last 20 trading days of the month as it relates to each monthly payment. All other non-executive director fees were suspended from 1 April 2020.

^{1.} Julie Edwards is remunerated via an external accounting firm, Lowell Accounting Services Pty Ltd.

HYDROCARBON DYNAMICS LIMITED (ABN 75 117 387 354)

Executive Remuneration Policy

The objective of the executive remuneration policy is to ensure that the Group's remuneration arrangements are competitive and reasonable, enabling it to attract and retain the right calibre of staff and to align the remuneration of Executive Directors and other executives with shareholder and business objectives. Executive remuneration arrangements comprise a fixed remuneration component and may also include specific long-term incentives based on key performance areas affecting the Group's financial and/or operational results as follows:

- (a) a base salary (which is based on factors such as length of service, qualifications and experience), superannuation, fringe benefits and performance incentives;
- (b) short-term performance incentives in the form of cash or equity bonuses which are paid only when predetermined key performance indicators have been met. These reflect the achievement of a number of short term goals established on an annual basis;
- (c) executives engaged through professional service entities are paid fees based on an agreed market based hourly rate for the services provided and may also be entitled to short term performance based incentives; and
- (d) long-term performance-based incentives comprising performance rights which are designed to align the remuneration of executives with the business objectives of the Group and its shareholders. LTIs may be delivered in an equity award(s), which is granted upon the satisfaction of performance conditions/key performance indicators.

The Remuneration Committee reviews executive remuneration arrangements annually by reference to the Group's performance, executive performance and comparable information from industry sectors. Such a review may include, but not limited to, changing the total proportion of executive remuneration which is 'at-risk', the payment of short term/long term incentives and the proportion of the risk remuneration between short term/long term incentives.

Executive and Non-executive Directors and other employed executives receive the superannuation guarantee contribution required by the Commonwealth Government. For the year ended 31 December 2020 the rate was 9.5% up to a maximum contribution of \$21,694. Executive and Non-executive Directors and other employed executives do not receive any other retirement benefits, however, some individuals may choose to sacrifice part of their salary to increase payments towards superannuation.

All remuneration paid is valued at either cost or the fair value to the Group and expensed.

Summary of Executive Remuneration

Name / position	Contract	Terms per annum	Total remuneration per annum
Stephen Mitchell Executive Chairman	Yes	Executive Chairman (until 1 April 2020): AU\$200,000 per annum plus super until 31 March 2020 with	Nil
(until 1 April 2020) Non-Executive Chairman (from 1 April 2020)		no remuneration by agreement from 1 April 2020. Short-term incentive terms - where the VWAP exceeds the VWAP in June of the preceding year by between 40% and 100%, the bonus increases between 25% and 100% of the yearly salary, depending on the VWAP percentage increase achieved.	
		The Company has the right to terminate the employee's employment at any time during the term provided a severance payment equal to six months remuneration plus accrued STI bonuses and other leave entitlements is paid to the employee.	
		Non-Executive Chairman (from 1 April 2020): Paid in accordance with the non-executive director terms on the previous page. Stephen's director fees have been suspended until further notice.	

(ABN 75 117 387 354)

Name / position	Contract	Terms per annum	Total remuneration per annum
Nicholas Castellano Executive Director	Yes	US\$180,000 per annum until 31 March 2020, reduced to US\$120,000 from 1 April 2020. Remuneration increases to US\$180,000 once the Group achieves at least three consecutive months of 40 HCD barrel sales. Contract ends on 1 April 2021, upon which any party may terminate the agreement by giving at least 2 months notice. No termination benefits apply other than outstanding and owing consultant fees at the date of termination.	US\$120,000
William Tarantino CEO Chemical Division (Appointed 2 January 2020)	Yes	US\$235,000 per annum. Contract ends on 1 September 2021 and shall automatically renew for 1 year unless either the Group or Employee give at least 60 days notice of termination. Employee's contract may be terminated at any time by the Group without cause or by voluntary resignation by the employee, provided that 90 days notice is given. Employee is entitled to 3 months of base salary plus unreimbursed expenses, accrued leave or other entitlements.	US\$235,000

Total Reward Mix

The amount of remuneration 'at-risk' is generally expressed as a proportion of fixed remuneration and is related to the agreement on remuneration between the Group and the executive, the Group's expectations of executive performance, and the executive's position in the Group. The proportion of fixed remuneration will generally not change on a year to year basis, but may be reviewed and modified by the Board.

Fixed remuneration (including the superannuation levy payable as employer contribution) is set with reference to market data, reflecting the scope of the role and the performance of the person in the role.

The mix of short term and long term incentives offered to executives will depend on their position in the Group. Generally, long term incentives are only offered to members of the senior executive team and short term incentives are only offered to other employees. Short and long term incentives are classified as 'at-risk' remuneration.

The Board believes that remuneration arrangements for executives should typically incorporate an at-risk component which is performance related and rewards employees for the achievement of goals which contribute to shareholder wealth. The Board believes that such arrangements should both incentivise and reward performance of executives that adds value to the Group for all shareholders.

Share Trading Policy

Shares issued under any of the Group's employee equity plans are subject to, and conditional upon, compliance with the Group's Securities Trading Policy. Executives are prohibited from limiting risk attached to those instruments by use of derivatives or other means. The Group's equity plan participants are required to confirm that they have not entered into any such prohibited transactions.

(ABN 75 117 387 354)

Details of Remuneration

Details of remuneration of each of the Key Management Personnel of the Group during the financial year are set out in the following table:

			T TERM IEFITS	LONG	POST EMPLOY- MENT	EQUITY PAYMI			PERFOR-
	YEAR	CASH, SALARY & FEES	RELATED PARTY FEES ¹	TERM BENEFITS	SUPER- ANNUATION	PERFORMA NCE RIGHTS ²	SHARES IN LIEU OF CASH ⁴	TOTAL	MANCE RELATED ³
		\$	\$	\$	\$	\$		\$	%
NON-EXECU	TIVE DI	RECTORS							
Stephen	2020	-	-	-	-	73,419	-	73,152	100%
Mitchell ⁵	2019	-	-	-	-	-	-	-	-
Ray	2020	-	12,000	-	-	55,888	-	67,735	82%
Shorrocks	2019	-	50,518	-	-	3,054	-	53,572	6%
Allan	2020	-	12,000	-	-	41,916	-	53,801	77%
Ritchie	2019	-	62,000	-	-	2,290	-	64,290	4%
Andrew	2020	13,500	-	-	-	55,888	40,500	109,735	51%
Seaton	2019	19,800	-	-	-	3,054	-	22,854	13%
EXECUTIVE	DIRECTO	ORS							
Stephen	2020	50,000	-	2,064	4,750	24,384	-	81,198	30%
Mitchell ⁵	2019	247,005	-	1,655	16,973	5,345	-	270,978	2%
Nicholas	2020	-	197,667	-	-	41,916	-	239,468	17%
Castellano	2019	-	259,518	-	-	2,290	-	261,808	1%
OTHER KEY	MANAG	EMENT							
William	2020	356,741	-	-	-	75,740	_	408,781	19%
Tarantino	2019	-	-	-	-	-	-	-	-
Douglas	2020	_	-	_	-	-	_	-	-
Douglas Hamilton ³	2019	_	160,000	-	-	-	_	160,000	-
TOTAL	2020	420,241	221,667	2,064	4,750	369,151	40,500	1,058,373	
TOTAL	2019	266,805	532,036	1,655	16,973	16,033	-	833,502	

^{1.} Remuneration paid via Director related entities.

^{2.} All performance-related incentives are long term.

Douglas Hamilton resigned on 31 July 2019.

^{4.} Andrew Seaton's non-executive director fees were paid in shares from 1 April 2020 to 31 December 2020 with the number of shares based on the Volume Weighted Average Price over the last 20 trading days of the month as it relates to each monthly payment.

^{5.} Stephen Mitchell was an Executive Chairman until 31 March 2020 upon which he became a Non-executive Chairman.

(ABN 75 117 387 354)

Comparison of Key Management Personnel Remuneration to Group Performance

The table below shows the total remuneration cost of the Key Management Personnel, earnings per ordinary share (EPS), dividends paid or declared, and the closing price of ordinary shares on ASX at year end for the current year and previous four years.

Relation to performance	2020	2019	2018	2017	2016
Total remuneration (\$)	1,058,373	833,502	1,115,683	1,273,905	493,128
EPS (loss) cents	(0.62)	(1.26)	(2.09)	(2.50)	(1.26)
Dividends paid	-	-	-	-	-
Share price at year end (cents)	0.03	0.09	0.14	0.08	0.08

Director Interests

The relevant interest of each director in the shares, debentures, interests in registered schemes and rights or options over such instruments issued by the companies within the Group, as notified by the directors to the Australian Securities Exchange in accordance with \$205G(1) of the Corporations Act 2001 and Reg. 2M.3.03(1) of the Corporations Regulations 2001, at balance date and the date of this report is as follows:

Director	Ordinary shares	Unlisted options (expiring 31-Oct-22)	Performance rights (expiring 1-Sept-21)
Stephen Mitchell	44,780,499	3,731,708	3,500,000
Nicholas Castellano	6,168,140	1	1,500,000
Ray Shorrocks	6,349,230	514,103	2,000,000
Allan Ritchie	4,200,908	350,451	1,500,000
Andrew Seaton	4,267,085	355,591	2,000,000

There are no contracts to which a director is a party or under which a director is entitled to a benefit that confer a right for the director to call for shares in HCD.

Performance Rights

The terms and conditions of each grant of performance rights outstanding during the year affecting remuneration in the current or a future period with respect to Key Management Personnel are shown in the table below.

КМР	Grant date		Expiry date	Vesting date	Exercise price	Fair value	Performance condition	Vested %
Stephen Mitchell	11-Dec-19	1,750,000	1-Sep-21	1-Sep-21	\$nil	\$0.02	Share price exceeding 15 cents for any consecutive 3 month prior to 1 Sept 2021.	0%
Stephen Mitchell	11-Dec-19	1,750,000	1-Sep-21	1-Sep-21	\$nil	\$0.08	Sales revenue from the sale of Multi- Flow® exceeding US\$900,000 over any 3 consecutive months prior to 1 Sept 2021.	0%
Nicholas Castellano	11-Dec-19	750,000	1-Sep-21	1-Sep-21	\$nil	\$0.02	Share price exceeding 15 cents for any consecutive 3 month prior to 1 Sept 2021.	0%
Nicholas Castellano	11-Dec-19	750,000	1-Sep-21	1-Sep-21	\$nil	\$0.08	Sales revenue from the sale of Multi- Flow® exceeding US\$900,000 over any 3 consecutive months prior to 1 Sept 2021.	0%
Ray Shorrocks	11-Dec-19	1,000,000	1-Sep-21	1-Sep-21	\$nil	\$0.02	Share price exceeding 15 cents for any consecutive 3 month prior to 1 Sept 2021.	0%
Ray Shorrocks	11-Dec-19	1,000,000	1-Sep-21	1-Sep-21	\$nil	\$0.08	Sales revenue from the sale of Multi- Flow® exceeding US\$900,000 over any 3 consecutive months prior to 1 Sept 2021.	0%

(ABN 75 117 387 354)

КМР	Grant date		Expiry date	Vesting date	Exerci se price	Fair value	Performance condition	Vested %
Allan Ritchie	11-Dec-19	750,000	1-Sep-21	1-Sep-21	\$nil	\$0.02	Share price exceeding 15 cents for any consecutive 3 month prior to 1 Sept 2021.	0%
Allan Ritchie	11-Dec-19	750,000	1-Sep-21	1-Sep-21	\$nil	\$0.08	Sales revenue from the sale of Multi- Flow® exceeding US\$900,000 over any 3 consecutive months prior to 1 Sept 2021.	0%
Andrew Seaton	11-Dec-19	1,000,000	1-Sep-21	1-Sep-21	\$nil	\$0.02	Share price exceeding 15 cents for any consecutive 3 month prior to 1 Sept 2021.	0%
Andrew Seaton	11-Dec-19	1,000,000	1-Sep-21	1-Sep-21	\$nil	\$0.08	Sales revenue from the sale of Multi- Flow® exceeding US\$900,000 over any 3 consecutive months prior to 1 Sept 2021.	0%
William Tarantino	8-Jan-20	1,250,000	1-Sep-21	1-Sep-21	\$nil	\$0.03	Share price exceeding 15 cents for any consecutive 3 month prior to 1 Sept 2021.	0%
William Tarantino	8-Jan-20	1,250,000	1-Sep-21	1-Sep-21	\$nil	\$0.08	Sales revenue from the sale of Multi- Flow® exceeding US\$900,000 over any 3 consecutive months prior to 1 Sept 2021.	0%
Julie Edwards ¹	8-Jan-20	250,000	1-Sep-21	1-Sep-21	\$nil	\$0.03	Share price exceeding 15 cents for any consecutive 3 month prior to 1 Sept 2021.	0%
Julie Edwards¹	8-Jan-20	250,000	1-Sep-21	1-Sep-21	\$nil	\$0.08	Sales revenue from the sale of Multi- Flow® exceeding US\$900,000 over any 3 consecutive months prior to 1 Sept 2021.	0%

^{1.} Issued to Invisage Super Pty Ltd, a related entity of Julie Edwards.

The movements in the current year of the number of performance rights granted to Key Management Personnel are as follows:

КМР	Grant date	Vesting date	Number at beginning of year	Granted during the year	Number of rights vested	Number of rights lapsed	Number at end of year
Stephen Mitchell	11-Dec-19	1-Sep-21	3,500,000	ı	-	-	3,500,000
Nicholas Castellano	11-Dec-19	1-Sep-21	1,500,000	-	-	-	1,500,000
Ray Shorrocks	11-Dec-19	1-Sep-21	2,000,000	-	-	-	2,000,000
Allan Ritchie	11-Dec-19	1-Sep-21	1,500,000	1	-	-	1,500,000
Andrew Seaton	11-Dec-19	1-Sep-21	2,000,000	-	-	-	2,000,000
William Tarantino	8-Jan-20	1-Sep-21	-	2,500,000	-	-	2,500,000
Julie Edwards ¹	8-Jan-20	1-Sep-21	-	500,000	-	-	500,000

^{1.} Issued to Invisage Super Pty Ltd, a related entity of Julie Edwards.

(ABN 75 117 387 354)

Key Management Personnel Shareholdings

The number of ordinary shares in the Group held by each of the Key Management Personnel of the Group is as follows:

KMP	Balance at beginning of	Shares purchased	Shares sold	Balance at end of the
	the year			year
Stephen Mitchell	18,500,002	26,780,497	(500,000)	44,780,499
Nicholas Castellano	5,668,140	500,000	-	6,168,140
Ray Shorrocks	3,035,500	3,339,230	-	6,374,730
Allan Ritchie	2,756,753	1,444,173	-	4,200,926
Andrew Seaton	2,225,350	2,041,735	-	4,267,085
William Tarantino	-	2,000,000	-	2,000,000
Julie Edwards	50,000	34,000	-	84,000

Unlisted Options

The movements in the current year of the number of options held by Key Management Personnel are as follows:

КМР	Number at beginning of year	Acquired during the year	Number of options exercised	Number of options expired	Number at end of year
Stephen Mitchell	-	3,731,708	-	-	3,731,708
Ray Shorrocks	-	514,103	-	-	514,103
Allan Ritchie	-	350,451	-	-	350,451
Andrew Seaton	-	355,591	ī	-	355,591
Julie Edwards	-	12,000	-	-	12,000

Unlisted options were issued under the Rights Issue Prospectus dated 21 October 2020. One free option was allocated for every two shares subscribed for under the Rights Issue. Therefore the options were not granted as remuneration and are not considered as a share-based payment, as they are part of a capital issue applicable to all shareholders.

Related Party Transactions

During the year, the Group paid the following amounts to related party entities:

- \$12,000 of board fees to Spring Street Holdings Pty Ltd, a company associated with Ray Shorrocks.
- \$12,000 of consulting fees (in lieu of board fees) to True Success Pty Ltd, a company associated with Allan Ritchie.
- \$197,667 of salaries and wages and \$280,826 of royalties to NC2 LLC, a company associated with Nicholas Castellano. The Group has an outstanding payable of \$24,333 to NC2 LLC at balance date.

\$136,500 was also invoiced from Lowell Accounting Services for accounting and secretarial services and rent, an entity of which Stephen Mitchell and Julie Edwards are Directors. \$86,400 has been settled by payment of cash, \$42,750 has or will be settled via the issuance of shares and \$7,350 remains payable at balance date.

Transactions between related parties are on normal commercial terms and conditions no more favourable than those available to other parties unless otherwise stated.

END OF AUDITED REMUNERATION REPORT

(ABN 75 117 387 354)

5. PRINCIPAL ACTIVITIES

The principal activities of the Group during the year under review were the sales and marketing of HCD's proprietary products as well as the evaluation of oil projects in North America and internationally.

There have been no significant changes in the nature of the Group's principal activities during the financial year.

6. REVIEW OF OPERATIONS AND FINANCIAL POSITION/RESULTS

Projects and Activities

The Group has an exceptional new oil technology (HCD Multi-Flow®) that allows for the swift, clean and cost effective treatment of heavy, asphaltenic and paraffinic oils. The technology can be applied to: 1) lowering the temperature at which paraffin that occurs naturally in some crude oils solidifies (or crude oil pour point); 2) improve oil flow rates in wells and pipelines producing or transporting viscous crudes; 3) reduce the requirement of expensive light crude oil (diluent) traditionally mixed in with the viscous crudes to enable them to be pumped from the reservoir and to meet pipeline viscosity and gravity specifications and; 4) recover saleable oil from sludge in storage facilities.

Strategic Review and Cost Reductions

After a detailed strategic review by the new CEO of its chemical division William Tarantino and subsequent board approval, the Group moved entirely to a sales model based on the appointment of agents and distributors rather than salaried sales staff that included product re-branding and product re-pricing.

The refined business model coincided with the board's decision to reduce fixed costs by approximately \$1million/year via a variety of measures including substantial cuts to director remuneration. These measures included directors Stephen Mitchell, Ray Shorrocks and Allan Ritchie agreeing to forgo all director and consulting fees for the time being and Executive Director Nick Castellano accepting a reduced salary from US\$180,000 to US\$120,000. Reflecting his more recent appointment to the board, non-executive director Andrew Seaton agreed to forgo cash fees in favour of share based payments for the remainder of 2020.

Sales and Marketing Activities

As part of the new strategic plan considerable effort was maintained in identifying and appointing new agents and distributors as well as assisting in the sales efforts of existing ones. The Group appointed 10 agents and distributors, the majority of which are predominantly focussed on North America. The Group is also in advanced discussions with three additional new distributors covering Texas, Oklahoma, and Wyoming, and one covering India. If signed it is expected that these new distributors would bring considerable oilfield chemical and technical field expertise as well as strong industry relationships to the Group. Two of these new sales distributors have significant sales forces, scope and expertise.

With the completion of HCD's branding initiative and development of a consistent language around HCD's technology, the Group has created new, professional marketing materials to support the sales initiatives of the agents and distributors including a new web site aimed at industry.

The Group's marketing efforts have been affected by the adverse impact on the oil and gas industry associated with the COVID-19 pandemic throughout the year. It has been difficult to secure sales meetings and site visits with producers while many closed their offices and access to fields as part of Covid protection measures with most anticipated trials delayed.

HCD anticipates that with the recovery in oil prices, improved industry Covid management practices and increasing vaccinations, marketing and sales efforts will be able to gather strong momentum.

Gulf of Mexico

The Group announced late in 2019 that HCD Multi-Flow® will be used in a pilot on an offshore platform in the US Gulf of Mexico to clean up wax and asphaltene deposition in a subsea transfer pipeline and prevent them from recurring. The line is owned by a significant oil producer concentrating largely on deep-water US Gulf of Mexico assets.

(ABN 75 117 387 354)

In the trial the producer recommended a platform where HCD Multi-Flow® will be applied to a circa 1,000 barrel of oil/day transfer line at dosage rates from 250 PPM up to 1,000 PPM. The objective of the trial will be to reduce the pressure in the line by cleaning the paraffin and asphaltene deposition and to prevent build-up of waxes and paraffins in the future. The benefits to the producer will be flow assurance in the line, cost reductions associated with replacing numerous chemicals currently used and improved Health, Safety & Environment outcomes.

This trial was postponed and is now expected to commence in the first half of 2021.

<u>India</u>

During the year HCD conducted trials in India. The first was for Oil India where HCD treated a well in the Baghewala oil field in northern India using HCD Multi-Flow® where the well responded quickly demonstrating a circa 65% boost in production during the first week post treatment. The second trial was to test the efficacy of HCD Multi-Flow® for one of India's largest pipelines. In a staged trial HCD Multi-Flow® was applied to a circulation pipeline and storage tank containing 2,400 barrels of oil within a terminal associated with a 175,000 barrel/day pipeline operated by a major producer in India. The objective of the trial was to reduce the pour point and wax appearance temperature (WAT) in order to reduce the substantial costs of transporting and managing the waxy oil produced.

The effect of Multi-Flow® on pour point, WAT and viscosity was inconclusive. The HCD technical team believe that most of the Multi-Flow was absorbed cleaning sludge in the tank (as the product works on the largest molecules first). The tank in question had not been cleaned in 7 years and consequently had significant sludge accumulation. HCD is now concentrating on securing a second trial in an environment where the product can demonstrate its capabilities directly associated with its intended use being flow assurance in this instance.

East European Trial

Four drums of HCD product have been purchased to trial on heavy oil wells by an oil & gas company in Eastern Europe. The purpose of the trial is to clean wellbore and production tubing needed to restore production and eliminate the need for hot oiling. HCD Multi-Flow was selected for the trial due to its ability to liquify asphaltene and paraffin deposits and reduce heavy oil viscosity.

A successful trial will likely open the door to treat the bulk of the wells in this producer's heavy oil production fields.

<u>Canada</u>

HCD technology proved very effective on 15 wells for a midcap Canadian oil and gas producer striving to control paraffin deposition issues and while this producer decided to remain with the incumbent chemical supplier (after massive discounting), HCD performed well enough to be invited, via its distributor, to participate in a new and much larger opportunity on another of this company's producing fields. This trial is expected to begin in the second quarter of 2021. In addition, this First Nation distributor has proposals out to conduct similar paraffin control trials with three other small to midcap sized oil producers in Alberta, Canada.

Middle East

HCD and its Middle East distributor, Gulf Green Crude Dynamics (GGCD), continued to work on converting successful laboratory tests to field trials and tank cleans with oil producers in the UAE, Kuwait, Iraq and Oman.

In Kuwait, several drums of HCD Multi-Flow were delivered to Kuwait Oil Company and HCD's distributor reported a successful down-hole treatment in the Greater Burgan field though no data on the trial has been provided to HCD.

HCD Energy Oil Projects

The Group has an interest in a project located in the Utah USA. Another interest in Kentucky, USA expired in January 2021.

Kentucky Project (100% WI; 81.25% NRI)

The Group has fully impaired the Kentucky asset. These leases expired in January 2021.

Utah Project (100% WI; 81.25% NRI)

The Group has not progressed the binding agreements associated with the two Memoranda of Understandings ("MOU") entered into with Valkor Technologies LLC ("Valkor") whereby Valkor could earn an interest in HCD's Utah project by funding the next two phases of exploration, appraisal and development. The MOU's are not binding and the lack of progress has created uncertainty as to whether final agreements will be completed.

(ABN 75 117 387 354)

The Group has the following tenement interests at the date of this report:

Project	Location	Gross acreage owned by HCD	Net acreage owned by HCD	Working Interest held as at 31 December 2020
Utah	Uintah, County	3,458	3,458	100%

The Group continues to review upstream and other energy technology investment opportunities.

Capital Raise

During the year the Group received strong support from shareholders raising \$2,795,570 under Rights Issues and further placements to sophisticated investors.

7. SIGNIFICANT AFFAIRS

There have not been any significant changes in the state of affairs of the Group for the financial year ended 31 December 2020.

8. LIKELY DEVELOPMENTS

The Group intends to continue its principal activities of acquiring, disposing, exploring and developing oil prospects and related technologies and to continue to sell and market its HCD products.

9. DIVIDENDS PAID OR RECOMMENDED

The Directors recommend that no dividend be paid or declared at this point in time. No amounts have been paid or declared by way of dividend during the financial year.

10. ENVIRONMENTAL REGULATIONS AND PERFORMANCE

The Group is subject to various environmental regulations in relation to its permits and licences in the United States of America.

The Board believes that the Group has adequate systems in place for the management of its environmental requirements and is not aware of any breach of those environmental requirements as they apply to the Group. The Board is not aware of any breaches of the Group's licence or permit conditions and no government agency has notified the Group of any environmental breaches during the period ended 31 December 2020.

11. UNISSUED SHARES UNDER OPTION

The Group has the following unissued shares under option outstanding at the date of the Directors' Report:

Description	Issue date	# of options	Expiry date	Issue price	Exercise price	Vested %
Share options for purchase of ordinary shares	23 & 27 November 2020	46,269,645	31-Oct-22	\$nil	\$0.03	100%

The unissued shares under option do not carry voting rights.

No shares were issued during the reporting period or up to the date of this report on exercise of options.

Refer to note 13 for further information and the Remuneration Report for options granted to key management personnel.

(ABN 75 117 387 354)

12. INDEMNIFICATION AND INSURANCE OF OFFICERS AND AUDITORS

Directors, executives and the company secretaries are indemnified by the Group against any liability incurred in their capacity as an officer of the Group or a related body corporate to the maximum extent permitted by law. The Group has not paid any premiums in respect of any contract insuring the directors of the Group against a liability for legal costs.

The Group has not paid any premiums in respect of any contract insuring its auditor against a liability incurred in that role as an auditor of the Group. In respect of non-audit services, Pitcher Partners have the benefit of an indemnity to the extent they reasonably rely on information provided by the Group which is false, misleading or incomplete. No amount has been paid under this indemnity during the financial year ending 31 December 2020 or to the date of this Report.

13. NON-AUDIT SERVICES

The Group may decide to employ the auditor on assignments additional to their statutory audit duties where the auditor's expertise and experience with the Group are important.

The following fees were paid or payable for services provided by Pitcher Partners, the auditor of the Group:

	2020	2019
	\$	\$
Auditing or reviewing the financial statements	55,000	50,000
Non-audit services	-	-
	55,000	50,000

This disclosure is made in accordance with s.300(2A)(11B(a)) and (11C(b)) of the Corporations Act 2001.

The Board of Directors will continuously consider the position and, in accordance with advice received from the Audit Committee, ensure that the provision of the non-audit services is compatible with the general standard of independence for auditors imposed by the *Corporations Act 2001*. The Directors are satisfied that the provision of non-audit services (where applicable) by the auditor, does not compromise the auditor independence requirements of the *Corporations Act 2001* for the following reasons:

- all non-audit services will be reviewed to ensure they do not impact the impartiality and objectivity of the auditor; and
- none of the services (where applicable) undermine the general principles relating to auditor independence as set out in APES 110 Code of Ethics for Professional Accountants (including Independence Standards).

The auditor's independence declaration under section 307C of the *Corporations Act 2001* forms a part of the Annual Report for the year ended 31 December 2020.

14. PROCEEDINGS ON BEHALF OF THE GROUP

No person has applied for leave of Court under section 237 of the Corporations Act 2001 to bring proceedings on behalf of the Group or intervene in any proceedings to which the Group is a party for the purpose of taking responsibility on behalf of the Group for all or any part of those proceedings. The Group was not a party to any such proceedings during the year.

15. ROUNDING OFF

The Group is of a kind referred to in ASIC Corporations (Rounding in Financial / Directors' Reports) Instrument 2016/191 and in accordance with that instrument, amounts in the financial report and directors' report have been rounded off to the nearest dollar, unless otherwise stated.

(ABN 75 117 387 354)

16. COVID

Following the decrease in worldwide consumption of oil and consequent dramatic fall in oil prices triggered by the COVID-19 pandemic, the Group has observed slightly improved industry conditions as oil demand and prices start to recover from the harsh market conditions. However, HCD continues to note an impact on its oil producing clients and potential customers. Whilst a number of previously anticipated trials have been delayed it is expected that some trials will resume during the period ahead.

16. EVENTS SUBSEQUENT TO REPORTING DATE

In the opinion of the directors, there has not arisen in the interval between the end of the financial year and the date of the report any other matter or circumstance that has significantly affected, or may significantly affect the Group's operations, results or the state of affairs in future financial years.

This report is signed in accordance with a resolution of the directors.

Stephen Mitchell

Spartner

Chairman

Melbourne, Victoria

31 March 2021



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p. +617 3222 8444

AUDITOR'S INDEPENDENCE DECLARATION TO THE DIRECTORS OF HYDROCARBON DYNAMICS LIMITED

In relation to the independent audit for the year ended 31 December 2020, to the best of my knowledge and belief there have been:

- (i) No contraventions of the auditor independence requirements of the Corporations Act 2001; and
- (ii) No contraventions of APES 110 Code of Ethics for Professional Accountants (including Independence Standards).

This declaration is in respect of Hydrocarbon Dynamics Limited and the entities it controlled during the year.

PITCHER PARTNERS

JASON EVANS Partner

Brisbane, Queensland 31 March 2021



HYDOCARBON DYNAMICS LIMITED (ABN 75 117 387 354)

CONSOLIDATED STATEMENT OF PROFIT OR LOSS AND OTHER COMPREHENSIVE INCOME FOR THE YEAR ENDED 31 DECEMBER 2020

TON THE TEAM ENGLY ST DECEMBER 2020	Note	Gro	up
		2020	2019
		\$	\$
REVENUE AND OTHER INCOME			
Revenue from contracts with customers	5	181,595	180,555
Other income	5	271,890	21,907
		453,485	202,462
EXPENSES			
Director and employee related costs	5	(732,291)	(861,263)
Share-based payment expense	13	(484,211)	(16,033)
General and administration costs		(352,050)	(352,403)
Royalties	20	(280,826)	(277,249)
Professional consultant and contractor fees		(250,883)	(527,553)
Accounting and audit fees		(152,476)	(184,395)
Productions costs		(126,621)	(171,805)
Travel and accommodation costs		(69,317)	(260,740)
Development and testing fees		(45,683)	(102,435)
Finance expenses		(5,463)	(4,352)
Bad and doubtful debts		(4,872)	-
Depreciation and impairment costs	5	(1,057)	(547,077)
		(2,505,750)	(3,305,305)
LOSS BEFORE INCOME TAX		(2,052,265)	(3,102,843)
Income tax benefit/(expense)	6		-
LOSS FOR THE YEAR		(2,052,265)	(3,102,843)
OTHER COMPREHENSIVE INCOME, NET OF INCOME TAX			
Items that may be reclassified subsequently to profit or loss:			
Exchange differences on translation of foreign operations		(54,994)	2,775
TOTAL OTHER COMPREHENSIVE LOSS, NET OF INCOME TAX		(54,994)	2,775
TOTAL COMPREHENSIVE LOSS FOR THE YEAR		(2,107,259)	(3,100,068)
Loss attributable to owners of the parent		(2,052,265)	(3,102,843)
Comprehensive loss attributable to owners of the parent		(2,107,259)	(3,100,068)
Comprehensive 1033 attributable to Owners of the parent		(2,107,233)	(3,100,006)
Basic loss per share (cents)	16	(0.62)	(1.26)
Diluted loss per share (cents)	16	(0.62)	(1.26)

The above Statement of Profit or Loss and Other Comprehensive Income should be read in conjunction with the accompanying notes.

(ABN 75 117 387 354)

CONSOLIDATED STATEMENT OF FINANCIAL POSITION AS AT 31 DECEMBER 2020

	Note		Group
		2020	2019
		\$	\$
ASSETS			
CURRENT ASSETS			
Cash and cash equivalents	7	2,442,306	1,627,595
Trade and other receivables	8	163,951	73,779
Other current assets		126,890	61,926
Inventory	9	556,481	414,586
TOTAL CURRENT ASSETS		3,289,628	2,177,886
NON-CURRENT ASSETS			
Exploration and evaluation expenditure	10	244,868	239,048
Plant and equipment		2,907	4,016
Intangible assets	11	3,969,829	3,968,484
TOTAL NON-CURRENT ASSETS		4,217,604	4,211,548
TOTAL ASSETS		7,507,232	6,389,434
CURRENT LIABILITIES			
Trade and other payables	12	175,451	175,572
Provisions	12	47,812	38,163
Borrowings		10,404	6,462
TOTAL CURRENT LIABILITIES		233,667	220,197
TOTAL CORRECT LIABILITIES		233,007	
NON-CURRENT LIABILITIES			
Provisions		5,330	3,266
TOTAL NON-CURRENT LIABILITIES		5,330	3,266
TOTAL LIABILITIES		238,997	223,463
NET ASSETS		7,268,235	6,165,971
EQUITY			
Issued capital	13	65,637,936	62,857,124
Reserves	13	(372,604)	(670,321)
Accumulated losses		(57,997,097)	(56,020,832)
TOTAL EQUITY		7,268,235	6,165,971

The above Statement of Financial Position should be read in conjunction with the accompanying notes.

(ABN 75 117 387 354)

CONSOLIDATED STATEMENT OF CHANGES IN EQUITY FOR YEAR ENDED 31 DECEMBER 2020

Consolidated	Issued Capital	Foreign Currency Translation Reserve	Share Based Payments Reserve	Accumulated Losses	Total
Balance at 1 January 2019	60,453,157	(765,129)	304,042	(53,146,031)	6,846,039
Loss for the year	-	-	-	(3,102,843)	(3,102,843)
Other comprehensive loss for the year		2,775	-	-	2,775
Total comprehensive loss for the year		2,775	-	(3,102,843)	3,100,068
Transactions with owners in their capacity as owners					
Contributions of equity net of transaction costs	2,403,967	-	-	-	2,403,967
Expiry of options	-	-	(228,042)	228,042	-
Share based payments		=	16,033	_	16,033
	2,403,967	-	(212,009)	228,042	2,420,000
Balance at 31 December 2019	62,857,124	(762,354)	92,033	(56,020,832)	6,165,971
Balance at 1 January 2020	62,857,124	(762,354)	92,033	(56,020,832)	6,165,971
Loss for the year	-	-	-	(2,052,265)	(2,052,265)
Other comprehensive loss for the year		(54,994)	_		(54,994)
Total comprehensive loss for the year		(54,994)	-	(2,052,265)	(2,107,259)
Transactions with owners in their capacity as owners					
Contributions of equity net of transaction costs	2,725,312	-	-	-	2,780,812
Shares issued in lieu of cash	55,500	-	-	-	55,500
Expiry of options	-	-	(76,000)	76,000	-
Share based payments		-	428,711	-	428,711
	2,780,812	-	352,711	76,000	3,209,523
Balance at 31 December 2020	65,637,936	(817,348)	444,744	(57,997,097)	7,268,235

The above Statement of Changes in Equity should be read in conjunction with the accompanying notes.

HYDROCARBON DYNAMICS LIMITED (ABN 75 117 387 354)

CONSOLIDATED STATEMENT OF CASH FLOWS FOR YEAR ENDED 31 DECEMBER 2020

CASH FLOWS FROM OPERATING ACTIVITIES 8 6 5 5 Receipts from customers 83,667 165,839 165,839 165,839 165,839 165,839 165,839 165,839 165,839 165,839 165,380 165,380 165,839 165,839 165,839 165,839 165,839 165,613 165,614 165,613 165,614 165,614 165,614 165,614 165,614 165,614 165,616 165,616 165,616 165,616 165,616 165,616 165,616 165,616 165,616 165,616 165,616 </th <th></th> <th>Note</th> <th>G</th> <th>iroup</th>		Note	G	iroup
CASH FLOWS FROM OPERATING ACTIVITIES Receipts from customers 83,667 165,839 Payments to suppliers and employees (2,205,414) (2,963,543) Receipts from R&D rebate 265,380 - Interest received 9,394 23,614 Interest paid (5,463) (4,352) NET CASH USED IN OPERATING ACTIVITIES 7(a) (1,852,436) (2,778,442) CASH FLOWS FROM INVESTING ACTIVITIES Payment for property, plant and equipment - (98) Payment for intangible assets (27,421) (205,686) Payment for intangible assets (1,345) (7,564) NET CASH USED IN INVESTING ACTIVITIES (28,766) (213,348) CASH FLOWS FROM FINANCING ACTIVITIES Proceeds from borrowings 157,000 118,292 Repayment of borrowings (153,058) (111,830) Proceeds from issue of shares 2,795,520 2,468,194 Share issue costs (70,208) (64,227) NET CASH PROVIDED BY FINANCING ACTIVITIES 2,729,254 2,410,429				
Receipts from customers 83,667 165,839 Payments to suppliers and employees (2,205,414) (2,963,543) Receipts from R&D rebate 265,380 - Interest received 9,394 23,614 Interest paid (5,463) (4,352) NET CASH USED IN OPERATING ACTIVITIES 7(a) (1,852,436) (2,778,442) Payment for property, plant and equipment - (98) Payment for exploration and evaluation assets (27,421) (205,686) Payment for intangible assets (1,345) (7,564) NET CASH USED IN INVESTING ACTIVITIES (28,766) (213,348) CASH FLOWS FROM FINANCING ACTIVITIES 157,000 118,292 Repayment of borrowings (153,058) (111,830) Proceeds from borrowings (153,058) (111,830) Proceeds from issue of shares 2,795,520 2,468,194 Share issue costs (70,208) (64,227) NET CASH PROVIDED BY FINANCING ACTIVITIES 2,729,254 2,410,429 Net increase / (decrease) in cash held 848,052 (581,361)			\$	\$
Payments to suppliers and employees (2,205,414) (2,963,543) Receipts from R&D rebate 265,380 - Interest received 9,394 23,614 Interest paid (5,463) (4,352) NET CASH USED IN OPERATING ACTIVITIES 7(a) (1,852,436) (2,778,442) CASH FLOWS FROM INVESTING ACTIVITIES ** (98) Payment for property, plant and equipment - (98) Payment for exploration and evaluation assets (27,421) (205,686) Payment for intangible assets (1,345) (7,564) NET CASH USED IN INVESTING ACTIVITIES (28,766) (213,348) CASH FLOWS FROM FINANCING ACTIVITIES ** 157,000 118,292 Repayment of borrowings (153,058) (111,830) Proceeds from issue of shares 2,795,520 2,468,194 Share issue costs (70,208) (64,227) NET CASH PROVIDED BY FINANCING ACTIVITIES 2,729,254 2,410,429 Net increase / (decrease) in cash held 848,052 (581,361) Cash at beginning of financial year 1,627,595 <td< td=""><td>CASH FLOWS FROM OPERATING ACTIVITIES</td><td></td><td></td><td></td></td<>	CASH FLOWS FROM OPERATING ACTIVITIES			
Receipts from R&D rebate 265,380 - Interest received 9,394 23,614 Interest paid (5,463) (4,352) NET CASH USED IN OPERATING ACTIVITIES 7(a) (1,852,436) (2,778,442) CASH FLOWS FROM INVESTING ACTIVITIES Payment for property, plant and equipment - (98) Payment for exploration and evaluation assets (27,421) (205,686) Payment for intangible assets (1,345) (7,564) NET CASH USED IN INVESTING ACTIVITIES (28,766) (213,348) CASH FLOWS FROM FINANCING ACTIVITIES 157,000 118,292 Repayment of borrowings 157,000 118,292 Repayment of borrowings (153,058) (111,830) Proceeds from issue of shares 2,795,520 2,468,194 Share issue costs (70,208) (64,227) NET CASH PROVIDED BY FINANCING ACTIVITIES 2,729,254 2,410,429 Net increase / (decrease) in cash held 848,052 (581,361) Cash at beginning of financial year 1,627,595 2,206,515 Effect of exchange rate movement (33,	Receipts from customers		83,667	165,839
Interest received 9,394 23,614 Interest paid (5,463) (4,352) NET CASH USED IN OPERATING ACTIVITIES 7(a) (1,852,436) (2,778,442) CASH FLOWS FROM INVESTING ACTIVITIES Payment for property, plant and equipment - (98) Payment for exploration and evaluation assets (27,421) (205,686) Payment for intangible assets (1,345) (7,564) NET CASH USED IN INVESTING ACTIVITIES (28,766) (213,348) CASH FLOWS FROM FINANCING ACTIVITIES Proceeds from borrowings 157,000 118,292 Repayment of borrowings (153,058) (111,830) Proceeds from issue of shares 2,795,520 2,468,194 Share issue costs (70,208) (64,227) NET CASH PROVIDED BY FINANCING ACTIVITIES 2,729,254 2,410,429 Net increase / (decrease) in cash held 848,052 (581,361) Cash at beginning of financial year 1,627,595 2,206,515 Effect of exchange rate movement (33,341) 2,441	Payments to suppliers and employees		(2,205,414)	(2,963,543)
Interest paid (5,463) (4,352) NET CASH USED IN OPERATING ACTIVITIES 7(a) (1,852,436) (2,778,442) CASH FLOWS FROM INVESTING ACTIVITIES Payment for property, plant and equipment - (98) Payment for exploration and evaluation assets (27,421) (205,686) Payment for intangible assets (1,345) (7,564) NET CASH USED IN INVESTING ACTIVITIES (28,766) (213,348) CASH FLOWS FROM FINANCING ACTIVITIES 157,000 118,292 Repayment of borrowings (153,058) (111,830) Proceeds from issue of shares 2,795,520 2,468,194 Share issue costs (70,208) (64,227) NET CASH PROVIDED BY FINANCING ACTIVITIES 2,729,254 2,410,429 Net increase / (decrease) in cash held 848,052 (581,361) Cash at beginning of financial year 1,627,595 2,206,515 Effect of exchange rate movement (33,341) 2,441	Receipts from R&D rebate		265,380	-
NET CASH USED IN OPERATING ACTIVITIES 7(a) (1,852,436) (2,778,442) CASH FLOWS FROM INVESTING ACTIVITIES 98) Payment for property, plant and equipment - (98) Payment for exploration and evaluation assets (27,421) (205,686) Payment for intangible assets (1,345) (7,564) NET CASH USED IN INVESTING ACTIVITIES (28,766) (213,348) CASH FLOWS FROM FINANCING ACTIVITIES 157,000 118,292 Repayment of borrowings (153,058) (111,830) Proceeds from issue of shares 2,795,520 2,468,194 Share issue costs (70,208) (64,227) NET CASH PROVIDED BY FINANCING ACTIVITIES 2,729,254 2,410,429 Net increase / (decrease) in cash held 848,052 (581,361) Cash at beginning of financial year 1,627,595 2,206,515 Effect of exchange rate movement (33,341) 2,441	Interest received		9,394	23,614
CASH FLOWS FROM INVESTING ACTIVITIES Payment for property, plant and equipment - (98) Payment for exploration and evaluation assets (27,421) (205,686) Payment for intangible assets (1,345) (7,564) NET CASH USED IN INVESTING ACTIVITIES (28,766) (213,348) CASH FLOWS FROM FINANCING ACTIVITIES TS7,000 118,292 Repayment of borrowings (153,058) (111,830) Proceeds from issue of shares 2,795,520 2,468,194 Share issue costs (70,208) (64,227) NET CASH PROVIDED BY FINANCING ACTIVITIES 2,729,254 2,410,429 Net increase / (decrease) in cash held 848,052 (581,361) Cash at beginning of financial year 1,627,595 2,206,515 Effect of exchange rate movement (33,341) 2,441	Interest paid		(5,463)	(4,352)
Payment for property, plant and equipment - (98) Payment for exploration and evaluation assets (27,421) (205,686) Payment for intangible assets (1,345) (7,564) NET CASH USED IN INVESTING ACTIVITIES (28,766) (213,348) CASH FLOWS FROM FINANCING ACTIVITIES Proceeds from borrowings 157,000 118,292 Repayment of borrowings (153,058) (111,830) Proceeds from issue of shares 2,795,520 2,468,194 Share issue costs (70,208) (64,227) NET CASH PROVIDED BY FINANCING ACTIVITIES 2,729,254 2,410,429 Net increase / (decrease) in cash held 848,052 (581,361) Cash at beginning of financial year 1,627,595 2,206,515 Effect of exchange rate movement (33,341) 2,441	NET CASH USED IN OPERATING ACTIVITIES	7(a)	(1,852,436)	(2,778,442)
Payment for property, plant and equipment - (98) Payment for exploration and evaluation assets (27,421) (205,686) Payment for intangible assets (1,345) (7,564) NET CASH USED IN INVESTING ACTIVITIES (28,766) (213,348) CASH FLOWS FROM FINANCING ACTIVITIES Proceeds from borrowings 157,000 118,292 Repayment of borrowings (153,058) (111,830) Proceeds from issue of shares 2,795,520 2,468,194 Share issue costs (70,208) (64,227) NET CASH PROVIDED BY FINANCING ACTIVITIES 2,729,254 2,410,429 Net increase / (decrease) in cash held 848,052 (581,361) Cash at beginning of financial year 1,627,595 2,206,515 Effect of exchange rate movement (33,341) 2,441				
Payment for exploration and evaluation assets (27,421) (205,686) Payment for intangible assets (1,345) (7,564) NET CASH USED IN INVESTING ACTIVITIES (28,766) (213,348) CASH FLOWS FROM FINANCING ACTIVITIES Proceeds from borrowings 157,000 118,292 Repayment of borrowings (153,058) (111,830) Proceeds from issue of shares 2,795,520 2,468,194 Share issue costs (70,208) (64,227) NET CASH PROVIDED BY FINANCING ACTIVITIES 2,729,254 2,410,429 Net increase / (decrease) in cash held 848,052 (581,361) Cash at beginning of financial year 1,627,595 2,206,515 Effect of exchange rate movement (33,341) 2,441	CASH FLOWS FROM INVESTING ACTIVITIES			
Payment for intangible assets (1,345) (7,564) NET CASH USED IN INVESTING ACTIVITIES (28,766) (213,348) CASH FLOWS FROM FINANCING ACTIVITIES Proceeds from borrowings 157,000 118,292 Repayment of borrowings (153,058) (111,830) Proceeds from issue of shares 2,795,520 2,468,194 Share issue costs (70,208) (64,227) NET CASH PROVIDED BY FINANCING ACTIVITIES 2,729,254 2,410,429 Net increase / (decrease) in cash held 848,052 (581,361) Cash at beginning of financial year 1,627,595 2,206,515 Effect of exchange rate movement (33,341) 2,441	Payment for property, plant and equipment		-	(98)
NET CASH USED IN INVESTING ACTIVITIES (28,766) (213,348) CASH FLOWS FROM FINANCING ACTIVITIES 157,000 118,292 Repayment of borrowings (153,058) (111,830) Proceeds from issue of shares 2,795,520 2,468,194 Share issue costs (70,208) (64,227) NET CASH PROVIDED BY FINANCING ACTIVITIES 2,729,254 2,410,429 Net increase / (decrease) in cash held 848,052 (581,361) Cash at beginning of financial year 1,627,595 2,206,515 Effect of exchange rate movement (33,341) 2,441	Payment for exploration and evaluation assets		(27,421)	(205,686)
CASH FLOWS FROM FINANCING ACTIVITIES Proceeds from borrowings 157,000 118,292 Repayment of borrowings (153,058) (111,830) Proceeds from issue of shares 2,795,520 2,468,194 Share issue costs (70,208) (64,227) NET CASH PROVIDED BY FINANCING ACTIVITIES 2,729,254 2,410,429 Net increase / (decrease) in cash held 848,052 (581,361) Cash at beginning of financial year 1,627,595 2,206,515 Effect of exchange rate movement (33,341) 2,441	Payment for intangible assets		(1,345)	(7,564)
Proceeds from borrowings 157,000 118,292 Repayment of borrowings (153,058) (111,830) Proceeds from issue of shares 2,795,520 2,468,194 Share issue costs (70,208) (64,227) NET CASH PROVIDED BY FINANCING ACTIVITIES 2,729,254 2,410,429 Net increase / (decrease) in cash held 848,052 (581,361) Cash at beginning of financial year 1,627,595 2,206,515 Effect of exchange rate movement (33,341) 2,441	NET CASH USED IN INVESTING ACTIVITIES		(28,766)	(213,348)
Proceeds from borrowings 157,000 118,292 Repayment of borrowings (153,058) (111,830) Proceeds from issue of shares 2,795,520 2,468,194 Share issue costs (70,208) (64,227) NET CASH PROVIDED BY FINANCING ACTIVITIES 2,729,254 2,410,429 Net increase / (decrease) in cash held 848,052 (581,361) Cash at beginning of financial year 1,627,595 2,206,515 Effect of exchange rate movement (33,341) 2,441	CASH FLOWS FROM FINANCING ACTIVITIES			
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Net increase / (decrease) in cash held Cash at beginning of financial year Effect of exchange rate movement (581,361) 1,627,595 2,206,515 (33,341) 2,441	NET CASH PROVIDED BY FINANCING ACTIVITIES			
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Effect of exchange rate movement (33,341) 2,441	Net increase / (decrease) in cash held		848,052	(581,361)
	Cash at beginning of financial year		1,627,595	2,206,515
CASH AT THE END OF THE YEAR 7 2,442,306 1,627,595	Effect of exchange rate movement		(33,341)	2,441
	CASH AT THE END OF THE YEAR	7	2,442,306	1,627,595

The above Statement of Cash Flows should be read in conjunction with the accompanying notes.

(ABN 75 117 387 354)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

NOTE 1 STATEMENT OF SIGNIFICANT ACCOUNTING POLICIES

The Annual Report is a general purpose financial report that has been prepared in accordance with Australian Accounting Standards, and Interpretations, issued by the Australian Accounting Standards Board and the *Corporations Act 2001*.

This Annual Report covers the consolidated financial statements and notes of Hydrocarbon Dynamics Limited and its controlled entities ('Consolidated Group' or 'Group'). Hydrocarbon Dynamics Limited is a listed public company, incorporated and domiciled in Australia. The Group is a for-profit entity for the purpose of preparing the consolidated financial statements.

The Group's registered office is: Level 6, 412 Collins Street, Melbourne VIC 3000.

NOTE 2 BASIS OF PREPARATION

Compliance with accounting standards

These general purpose financial statements have been prepared in accordance with Australian Accounting Standards and Interpretations issued by the Australian Accounting Standards Board and the *Corporations Act 2001*. The consolidated financial statements of the Group also comply with International Financial Reporting Standards (IFRS) as issued by the International Accounting Standard Board (IASB).

Historical cost convention

The consolidated financial statements have been prepared on an accruals basis and are based on historical costs modified, where applicable, by the measurement at fair value of selected financial assets and financial liabilities.

Comparatives

When required by Accounting Standards, comparative figures have been adjusted to conform to changes in presentation for the current financial year.

Going concern

The consolidated financial statements have been prepared on a going concern basis which contemplates that the Group will continue to meet its commitments and can therefore continue normal business activities and the realisation of assets and settlement of liabilities in the ordinary course of business.

The ability of the Group to continue to adopt the going concern assumption will depend upon a number of matters including the successful raising in the future of necessary funding through debt, equity or farm-out, the successful exploration and subsequent exploitation of the Group's working interests, or the commercialisation of the Group's HCD product. The Group's ability to enact its strategy to develop its exploration and evaluation assets and commercialise its HCD product is dependent upon the effectiveness of ongoing liquidity management activities.

The Group continually monitors its cash flow requirements to ensure that it has sufficient funds to meet its contractual commitments and adjusts its spending, particularly with respect to discretionary exploration activity and corporate overhead, accordingly.

In the absence of the above matters being successful, there exists a material uncertainty that may cast significant doubt on the Group's ability to continue as a going concern with the result that the Group may have to realise its assets and extinguish its liabilities other than in the ordinary course of business, and at amounts different from those stated in the consolidated financial statements. No adjustments for such circumstances have been made in the consolidated financial statements.

(ABN 75 117 387 354)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

NOTE 3 SIGNIFICANT ACCOUNTING POLICIES

The principal accounting policies adopted in the preparation of these consolidated financial statements are set out below. These policies have been consistently applied to all of the years presented unless otherwise stated.

(a) Principles of consolidation

Subsidiaries

Subsidiaries are all entities (including structured entities) over which the Group has control. The Group controls an entity when the Group is exposed to, or has the rights to, variable returns from its involvement with the entity and has the ability to affect those returns through its power to direct the activities of the entity. Subsidiaries are fully consolidated from the date on which control is transferred to the Group. They are de-consolidated from the date that control ceases.

The acquisition method of accounting is used to account for the acquisition of subsidiaries by the Group.

Intercompany transactions, balances and unrealised gains on transactions between Group companies are eliminated. Unrealised losses are also eliminated unless the transaction provides evidence of the impairment of the asset transferred.

Accounting policies of subsidiaries have been changed where necessary to ensure consistency with the policies adopted by the Group. The financial statements of subsidiaries are prepared for the same reporting period as the parent entity. Investments in subsidiaries are accounted for at cost in the separate financial statements of Hydrocarbon Dynamics Limited.

Changes in ownership interests

The Group treats transactions with non-controlling interests that do not result in a loss of control as transactions with equity owners of the Group. A change in ownership interest results in an adjustment between the carrying amounts of the controlling and non-controlling interests to reflect their relative interests in the subsidiary. Any difference between the amount of the adjustment to non-controlling interests and any consideration paid or received is recognised in a separate reserve within equity attributable to owners of the parent entity.

When the Group ceases to have control, joint control or significant influence, any retained interest in the entity is remeasured to its fair value with the change in carrying amount recognised in profit or loss. The fair value is the initial carrying amount for the purposes of subsequently accounting for the retained interest as an associate, jointly controlled entity or financial asset. In addition, any amounts previously recognised in other comprehensive income in respect of that entity are accounted for as if the Group had directly disposed of the related assets or liabilities. This means that any amounts previously recognised in other comprehensive income are reclassified to profit or loss.

If the ownership interest in a jointly-controlled entity or an associate is reduced but joint control or significant influence is retained, only a proportionate share of the amounts previously recognised in other comprehensive income are reclassified to profit or loss where appropriate.

(b) Income tax

The income tax expense (revenue) for the year comprises current income tax expense (income) and deferred tax expense (income).

Current income tax expense charged to the profit or loss is the tax payable on taxable income calculated using applicable income tax rates enacted, or substantially enacted, as at reporting date. Current tax liabilities (assets) are therefore measured at the amounts expected to be paid to (recovered from) the relevant taxation authority.

Deferred income tax expense reflects movements in deferred tax asset and deferred tax liability balances during the year as well as unused tax losses.

(ABN 75 117 387 354)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Income tax (continued)

Current and deferred income tax expense (income) is charged or credited directly to equity instead of the profit or loss when the tax relates to items that are credited or charged directly to equity.

Deferred tax assets and liabilities are ascertained based on temporary differences arising between the tax bases of assets and liabilities and their carrying amounts in the consolidated financial statements. Deferred tax assets also result where amounts have been fully expensed but future tax deductions are available. No deferred income tax will be recognised from the initial recognition of an asset or liability, excluding a business combination, where there is no effect on accounting or taxable profit or loss.

Deferred tax assets and liabilities are calculated at the tax rates that are expected to apply to the period when the asset is realised or the liability is settled, based on tax rates enacted or substantively enacted at reporting date. Their measurement also reflects the manner in which management expects to recover or settle the carrying amount of the related asset or liability.

Deferred tax assets relating to temporary differences and unused tax losses are recognised only to the extent that it is probable that future taxable profit will be available against which the benefits of the deferred tax asset can be utilised.

Current tax assets and liabilities are offset where a legally enforceable right of offset exists and it is intended net settlement or simultaneous realisation and settlement of the respective asset and liability will occur. Deferred tax assets and liabilities are offset where a legally enforceable right of setoff exists, the deferred tax assets and liabilities related to income taxes levied by the same taxation authority on either the same taxable entity or different taxable entities, where it is intended that net settlement or simultaneous realisation and settlement of the respective asset and liabilities will occur in future periods in which significant amounts of deferred tax assets or liabilities are expected to be recovered or settled.

(c) Foreign currency translation

Functional and presentation currency

Items included in the financial statements of each of the Group's entities are measured using the currency of the primary economic environment in which the entity operates ('the functional currency'). The consolidated financial statements are presented in Australian dollars, which is the Group's functional and presentation currency.

Transactions and balances

Foreign currency transactions are translated into the functional currency using the exchange rates prevailing at the dates of the transactions. Foreign exchange gains and losses resulting from the settlement of such transactions and from the translation at year end exchange rates of monetary assets and liabilities denominated in foreign currencies are recognised in the Consolidated Statement of Profit or Loss and Other Comprehensive Income, except when they are deferred in equity as qualifying cash flow hedges and qualifying net investment hedges or are attributable to part of the net investment in a foreign operation.

Translation differences on assets and liabilities carried at fair value are reported as part of the fair value gain or loss. Translation differences on non-monetary assets and liabilities such as equities held at fair value through profit or loss are recognised in profit or loss as part of the fair value gain or loss.

(ABN 75 117 387 354)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Foreign currency translation (continued)

Group companies

The results and financial position of all the Group entities that have a functional currency different from the presentation currency are translated into the presentation currency as follows:

- assets and liabilities for each Statement of Financial Position presented are translated at the closing rate at the date of that Statement of Financial Position;
- income and expenses for each Statement of Profit or Loss and Other Comprehensive Income are translated at average exchange rates (unless this is not a reasonable approximation of the cumulative effect of the rates prevailing on the transaction dates, in which case income and expenses are translated at the dates of the transactions); and
- all resulting exchange differences are recognised in other comprehensive income.

On consolidation, exchange differences arising from the translation of any net investment in foreign entities, and of borrowings and other financial instruments designated as hedges of such investments, are recognised in other comprehensive income and accumulated as a separate component of equity. When a foreign operation is sold or any borrowings forming part of the net investment are repaid, a proportionate share of such exchange differences that have been accumulated in equity are recognised in the Consolidated Statement of Profit or Loss and Other Comprehensive Income, as part of the gain or loss on sale where applicable.

Goodwill and fair value adjustments arising on the acquisition of a foreign entity are treated as assets and liabilities of the foreign entity and translated at the closing rate.

(d) Goods and services tax (GST)

Revenues, expenses and assets are recognised net of the amount of GST, except where the amount of GST incurred is not recoverable from the Australian Tax Office. In these circumstances the GST is recognised as part of the cost of acquisition of the asset or as part of an item of the expense.

Receivables and payables in the balance sheet are shown inclusive of GST.

Cash flows are presented in the Consolidated Statement of Cash Flows on a gross basis, except for the GST component of investing and financing activities, which are disclosed as operating cash flows.

(e) Revenue and other Income

Sale of goods

Revenue from the sale of goods is recognised when the performance obligation is satisfied. This is the point in time when the customer obtains control of the goods, which is generally at the time of delivery.

Revenue is recognised at amounts that reflect the consideration to which the entity is expected to be entitled in exchange for transferring goods to a customer.

Interest

Interest revenue is recognised as interest accrues using the effective interest method. This is a method of calculating the amortised cost of a financial asset and allocating the interest income over the relevant period using the effective interest rate, which is the rate that exactly discounts estimated future cash receipts through the expected life of the financial asset to the net carrying amount of the financial asset.

Other revenue

Other revenue is recognised when it is received or when the right to receive payment is established.

All revenue is stated net of the amount of goods and services tax (GST).

(ABN 75 117 387 354)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(f) Cash and cash equivalents

Cash and cash equivalents include cash on hand, deposits held at call with banks, other short-term highly liquid investments with original maturities of three months or less, and bank overdrafts. Bank overdrafts are shown within short-term borrowings in current liabilities on the Consolidated Statement of Financial Position.

(g) Financial instruments

Recognition and initial measurement

Financial instruments, incorporating financial assets and financial liabilities, are recognised when the entity becomes a party to the contractual provisions of the instrument. Trade date accounting is adopted for financial assets that are delivered within timeframes established by marketplace convention.

Financial instruments are initially measured at fair value plus transactions costs. Financial instruments are subsequently classified and measured as set out below.

Classification and subsequent measurement

Financial assets:

Financial assets are classified as current assets except for those with maturities greater than 12 months after the reporting period which are classified as non-current assets. Financial assets are subsequently classified and measured at amortised cost. All of the Group's financial assets are measured at amortised cost.

Financial assets at amortised cost

A financial asset shall be measured at amortised cost if both of the following conditions are met:

- (a) the financial asset is held within a business model whose objective is to hold financial assets in order to collect contractual cash flows and
- (b) the contractual terms of the financial asset give rise on specified dates to cash flows that are solely payments of principal and interest on the principal amount outstanding.

These assets are subsequently measured at amortised cost using the effective interest rate method.

The Group establishes an allowance for impairment of trade receivables using the simplified approach permitted by AASB 9, which requires expected lifetime losses to be recognised from initial recognition of the receivables. The Group has not modified or renegotiated the contractual cash flows of any financial assets during the year.

Refer to note 15 for further information on the Group's credit risk management policies and practices.

Financial liabilities:

Financial liabilities include trade payables, other creditors and accruals, loans and other amounts due, are subsequently measured at amortised cost using the effective interest rate method. Financial liabilities are classified as current liabilities unless the Group has an unconditional right to defer settlement of the liability for at least 12 months reporting date.

Derecognition

Financial assets are derecognised where the contractual rights to receipt of cash flows expires or the asset is transferred to another party whereby the entity no longer has any significant continuing involvement in the risks and benefits associated with the asset. Financial liabilities are derecognised where the related obligations are either discharged, cancelled or expire. The difference between the carrying value of the financial liability extinguished or transferred to another party and the fair value of consideration paid, including the transfer of non-cash assets or liabilities assumed, is recognised in profit or loss.

(ABN 75 117 387 354)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(h) Trade and other receivables

Trade and other receivables are recognised initially at fair value and subsequently measured at amortised cost using the effective interest method, less provision for impairment. Trade receivables are generally due for settlement within 30 days. They are presented as current assets unless collection is not expected more than 12 months after reporting date.

The group applies the simplified approach under AASB 9 to measuring the allowance for credit losses for receivables from contracts with customers, contract assets and lease receivables. Under the AASB 9 simplified approach, the group determines the allowance for credit losses for receivables from contracts with customers, contract assets and lease receivables on the basis of the lifetime expected credit losses of the financial asset. Lifetime expected credit losses represent the expected credit losses that are expected to result from default events over the expected life of the financial asset.

For all other financial assets subject to impairment testing, when there has been a significant increase in credit risk since the initial recognition of the financial asset, the allowance for credit losses is recognised on the basis of the lifetime expected credit losses. When there has not been an increase in credit risk since initial recognition, the allowance for credit losses is recognised on the basis of 12-month expected credit losses. '12-month expected credit losses' is the portion of lifetime expected credit losses that represent the expected credit losses that result from default events on a financial instrument that are possible within the 12 months after the reporting date.

The group consider a range of information when assessing whether the credit risk has increased significantly since initial recognition. This includes such factors as the identification of significant changes in external market indicators of credit risk, significant adverse changes in the financial performance or financial position of the counterparty, significant changes in the value of collateral, and past due information.

The group assumes that the credit risk on a financial asset has not increased significantly since initial recognition when the financial asset is determined to have a low credit risk at the reporting date. The group considers a financial asset to have a low credit risk when the counterparty has an external 'investment grade" credit rating (if available) of BBB or higher, or otherwise is assessed by the group to have a strong financial position and no history of past due amounts from previous transactions with the group.

The group assumes that the credit risk on a financial instrument has increased significantly since initial recognition when contractual payments are more than 30 days past due.

The group determines expected credit losses using a provision matrix based on the group's historical credit loss experience, adjusted for factors that are specific to the financial asset as well as current and future expected economic conditions relevant to the financial asset. When material, the time value of money is incorporated into the measurement of expected credit losses. There has been no change in the estimation techniques or significant assumptions made during the reporting period.

The group has identified contractual payments more than 90 days past due as default events for the purpose of measuring expected credit losses. These default events have been selected based on the group's historical experience. Because contract assets are directly related to unbilled work in progress, contract assets have a similar credit risk profile to receivables from contracts with customers. Accordingly, the group applies the same approach to measuring expected credit losses of receivables from contracts with customers as it does to measuring impairment losses on contract assets.

The measurement of expected credit losses reflects the group's 'expected rate of loss', which is a product of the probability of default and the loss given default, and its 'exposure at default', which is typically the carrying amount of the relevant asset. Expected credit losses are measured as the difference between all contractual cash flows due and all contractual cash flows expected based on the group's exposure at default, discounted at the financial asset's original effective interest rate.

(ABN 75 117 387 354)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Trade and other receivables (continued)

Financial assets are regarded as 'credit-impaired' when one or more events have occurred that have a detrimental impact on the estimated future cash flows of the financial asset. Indicators that a financial asset is 'credit-impaired' include observable data about the following:

- (a) significant financial difficulty of the issuer or the borrower;
- (b) breach of contract;
- (c) the lender, for economic or contractual reasons relating to the borrower's financial difficulty, has granted concessions to the borrower that the lender would not otherwise consider; or
- (d) it is becoming probable that the borrower will enter bankruptcy or other financial reorganisation.

The gross carrying amount of a financial asset is written off (i.e., reduced directly) when the counterparty is in severe financial difficulty and the group has no realistic expectation of recovery of the financial asset. Financial assets written off remain subject to enforcement action by the group. Recoveries, if any, are recognised in profit or loss.

(i) Inventories

The cost of inventory includes all costs of purchase, costs of conversion and other costs incurred in bringing the inventories to their present location and condition. The Group's cost generally includes the purchase price and the cost of transferring the inventory to the warehouse. Inventory is purchased from a third party. Inventories are measured at the lower of cost and net realisable value.

(j) Exploration and evaluation expenditure

Cost

Exploration and evaluation costs, including the costs of acquiring licences, are capitalised as exploration and evaluation assets on an area of interest basis. Costs incurred before the Group has obtained the legal rights to explore an area are expensed in the profit or loss.

The recoupment of costs carried forward in relation to areas of interest in the exploration and evaluation phase is dependent on successful development and commercial exploitation, or alternatively, sale of the respective areas of interest.

Recognition

Exploration and evaluation assets are only recognised if the rights to the area of interest are current and either:

- (i) the expenditures are expected to be recouped through successful development and exploitation of the area of interest or by its sale; or
- (ii) activities in the area of interest have not at the reporting date reached a stage which permits a reasonable assessment of the existence or otherwise of economically recoverable reserves, and active and significant operations in, or in relation to, the area of interest are continuing.

Once the technical feasibility and commercial viability of the area of interest are demonstrable, exploration and evaluation assets attributable to that area of interest are first tested for impairment and then reclassified from exploration and evaluation assets to property and development assets within property, plant and equipment.

(ABN 75 117 387 354)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Exploration and evaluation expenditure (continued)

The accumulated costs for the relevant area of interest is then amortised over the life of the area according to the rate of depletion of the economically recoverable reserves.

The timing and amount of restoration costs that are expected to be incurred are estimated, and the net present value is included as part of the cost of the exploration and evaluation activity that gives rise to the need for restoration. A corresponding provision for restoration and rehabilitation is also recognised. Finance charges arising from the unwinding of the liability are recognised as an expense in the profit or loss. Site restoration costs include the dismantling and removal of mining equipment and facilities, waste removal, and rehabilitation of the site in accordance with clauses of the petroleum permits.

Impairment

The Group assesses the carrying value of the exploration and evaluation asset on an annual basis, in accordance with the indicators set out in AASB 6 *Exploration for and Evaluation of Mineral Resources*, being:

- (a) the period for which the entity has the right to explore in the specific area has expired during the period or will expire in the near future, and is not expected to be renewed;
- (b) substantive expenditure on further exploration for and evaluation of mineral resources in the specific area is neither budgeted nor planned;
- (c) exploration for and evaluation of mineral resources in the specific area have not led to the discovery of commercially viable quantities of mineral resources and the entity has decided to discontinue such activities in the specific area; and
- (d) sufficient data exists to indicate that, although a development in the specific area is likely to proceed, the carrying amount of the exploration and evaluation asset is unlikely to be recovered in full from successful development of by sale.

(k) Plant and equipment

Each class of plant and equipment is carried at cost less accumulated depreciation and impairment losses.

Plant and equipment

Plant and equipment are measured on the cost basis. The carrying amount of plant and equipment is reviewed annually by directors to ensure it is not in excess of the recoverable amount from these assets. The recoverable amount is assessed on the basis of the expected net cash flows that will be received from the asset's employment and subsequent disposal. The expected net cash flows have been discounted to their present values in determining recoverable amounts.

Depreciation

The depreciable amount of all fixed assets is depreciated on a straight-line basis over the asset's useful life to the Group commencing from the time the asset is held ready for use.

The depreciation rates used for each class of depreciable assets are:

Class of fixed asset Depreciation rate

Plant and equipment 20 - 25%

The residual values and useful lives of assets are reviewed, and adjusted if appropriate, at each balance sheet date. The carrying amount of an asset is written down immediately to its recoverable amount if the assets' carrying amount is greater than its estimated recoverable amount.

Gains and losses on disposals are determined by comparing proceeds with the carrying amount. These gains and losses are included in the Consolidated Statement of Profit or Loss and Other Comprehensive Income.

(ABN 75 117 387 354)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(I) Intangible assets

Goodwill

Goodwill represents the future economic benefits arising from other assets acquired in a business combination that are not individually identifiable or separately recognised. Goodwill is initially recognised at an amount equal to the excess of: (a) the aggregate of the consideration transferred, the amount of any non controlling interest, and the acquisition date fair value of the acquirer's previously held equity interest (in the case of a step acquisition); over (b) the net fair value of the identifiable assets acquired and liabilities assumed. For accounting purposes, such measurement is treated as the cost of goodwill at that date.

Goodwill is not amortised but is tested annually for impairment, or more frequently if events or changes in circumstances indicate that it might be impaired. Goodwill is carried at cost less any accumulated impairment losses.

Intellectual property acquired in a business combination

The intellectual property was acquired in a business combination and was initially recognised at fair value (which, for accounting purposes, is treated as the cost of the intangible asset). The intellectual property is not being amortised as it is deemed to be an indefinite useful life asset. The intellectual property is tested for impairment where impairment indicators exist.

(m) Impairment of non-financial assets

Goodwill and intangible assets that have an indefinite useful life are not subject to amortisation and are tested annually for impairment or more frequently if events or changes in circumstances indicate that they might be impaired. Other assets are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount may not be recoverable. An impairment loss is recognised for the amount by which the asset's carrying amount exceeds its recoverable amount. The recoverable amount is the higher of an asset's fair value less costs to sell and value in use. For the purposes of assessing impairment, assets are grouped at the lowest levels for which there are separately identifiable cash inflows which are largely independent of the cash inflows from other assets or Groups of assets (cash-generating units). Non-financial assets other than goodwill that suffered impairment are reviewed for possible reversal of impairment at each reporting date.

(n) Trade and other payables

These amounts represent liabilities for goods and services provided to the entity prior to the end of the financial year and which are unpaid. The amounts are unsecured and are usually paid within 30 days of recognition. Trade payables are included in current liabilities except for those with maturities greater than 12 months after the reporting period which are classified as non-current liabilities.

(o) Provisions

Short term obligations

Liabilities for salary and wages, including non-monetary benefits, annual leave and accumulating sick leave expected to be settled within 12 months after the end of the period in which the employees render the related service are recognised in respect of employees' services up to the end of the reporting period and are measured at the amounts expected to be paid when the liabilities are settled. The liability for annual leave and accumulating sick leave is recognised in the provision for employee benefits.

Long term obligations

Liabilities for long service leave and annual leave which is not expected to be settled within 12 months after the end of the period in which the employees render the related service is recognised in the provision for employee benefits and measured as the present value of estimated future cash outflows to be made for those benefits. The obligations are presented as current liabilities if there is not an unconditional right to defer settlement for at least 12 months after the reporting date, regardless of when the actual settlement is expected to occur.

(ABN 75 117 387 354)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Provisions (continued)

Defined contribution superannuation plan

The consolidated entity makes superannuation contributions (currently 9.50% of the employee's average ordinary salary) to the employee's defined contribution superannuation plan of choice in respect of employee services rendered during the year. These superannuation contributions are recognised as an expense in the same period when the related employee services are received. The Group's obligation with respect to employee's defined contributions entitlements is limited to its obligation for any unpaid superannuation guarantee contributions at the end of the reporting period. All obligations for unpaid superannuation guarantee contributions are measured at the (undiscounted) amounts expected to be paid when the obligation is settled and are presented as current liabilities in the Consolidated Statement of Financial Position.

Equity-settled compensation

The Group operates equity-settled share-based payment employee share and option schemes. The fair value of the equity to which employees become entitled is measured at grant date and recognised as an expense over the vesting period, with a corresponding increase to an equity account. The fair value of shares is ascertained as the market bid price. The fair value of options is ascertained using a Black–Scholes pricing model which incorporates all market vesting conditions. The number of shares and options expected to vest is reviewed and adjusted at each reporting date such that the amount recognised for services received as consideration for the equity instruments granted shall be based on the number of equity instruments that eventually vest.

The share-based payments reserve is used to record the expense associated with options and performance rights granted to employees under equity-settled share-based payment arrangements. It is also used to record fair value of options granted for other goods and services as well as acquisition of other assets.

On expiry any remaining balance in the reserve is transferred to accumulated losses.

(p) Contributed equity

Ordinary shares are classified as equity. Incremental costs directly attributable to the issue of new shares or options are shown in equity as a deduction, net of tax, from the proceeds. Incremental costs directly attributable to the issue of new shares or options for the acquisition of a business are not included in the cost of acquisition as part of the purchase consideration.

(q) Leases

At the commencement date of a lease (other than leases of 12-months or less and leases of low value assets), the group recognises a lease asset representing its right to use the underlying asset and a lease liability representing its obligation to make lease payments.

Lease assets

Lease assets are initially recognised at cost, comprising the amount of the initial measurement of the lease liability, any lease payments made at or before the commencement date of the lease, less any lease incentives received, any initial direct costs incurred by the group, and an estimate of costs to be incurred by the group in dismantling and removing the underlying asset, restoring the site on which it is located or restoring the underlying asset to the condition required by the terms and conditions of the lease, unless those costs are incurred to produce inventories.

Subsequent to initial recognition, lease assets are measured at cost (adjusted for any remeasurement of the associated lease liability), less accumulated depreciation and any accumulated impairment loss.

Lease assets are depreciated over the shorter of the lease term and the estimated useful life of the underlying asset, consistent with the estimated consumption of the economic benefits embodied in the underlying asset.

(ABN 75 117 387 354)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Leases (continued)

Lease liabilities

Lease liabilities are initially recognised at the present value of the future lease payments (i.e., the lease payments that are unpaid at the commencement date of the lease). These lease payments are discounted using the interest rate implicit in the lease, if that rate can be readily determined, or otherwise using the group's incremental borrowing rate.

Subsequent to initial recognition, lease liabilities are measured at the present value of the remaining lease payments (i.e., the lease payments that are unpaid at the reporting date). Interest expense on lease liabilities is recognised in profit or loss (presented as a component of finance costs). Lease liabilities are remeasured to reflect changes to lease terms, changes to lease payments and any lease modifications not accounted for as separate leases.

Variable lease payments not included in the measurement of lease liabilities are recognised as an expense when incurred.

Leases of 12-months or less and leases of low value assets

Lease payments made in relation to leases of 12-months or less and leases of low value assets (for which a lease asset and a lease liability has not been recognised) are recognised as an expense on a straight-line basis over the lease term.

Leases of exploration and mining tenements are exempt and accounted for under AASB 6 *Exploration for and Evaluation of Mineral Resources*. The Group is not party to any leases that would need to be accounted for in accordance with AASB 16 *Leases*.

(r) EPS

Basic earnings per share

Basic earnings per share is determined by dividing the profit attributable to equity holders of the Group, excluding any costs of servicing equity other than ordinary shares, by the weighted average number of ordinary shares outstanding during the year, adjusted for bonus elements in ordinary shares issued during the year.

Diluted earnings per share

Diluted earnings per share adjusts the amounts used in determination of basic earnings per share to take in to account the after income tax effect of interest and other financing costs associated with dilutive potential ordinary shares and the weighted average number of shares assumed to have been issued for no consideration in relation to dilutive potential ordinary shares.

(s) Segment reporting

Operating segments are reported in a manner consistent with the internal reporting provided to the chief operating decision maker. The chief operating decision maker who is responsible for allocating resources and assessing performance of the operating segments has been identified as the Board of Directors.

Segment revenues and expenses are those directly attributable to the segments. Segment assets include all assets used by a segment and consist principally of cash, receivables, inventory, intangibles and plant and equipment, net of accumulated depreciation and amortisation. While most such assets can be directly attributed to individual segments, the carrying amount of certain assets used jointly by two or more segments is allocated to the segments on a reasonable basis. Segment liabilities consist principally of payables, employee benefits and accrued expenses. Segment assets and liabilities do not include deferred income taxes.

(ABN 75 117 387 354)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(t) Changes in accounting policies

Some accounting pronouncements which have become effective from 1 January 2020 and have therefore been adopted do not have a significant impact on the Group's financial results or position.

(u) New accounting standards and interpretations for application in future periods

At the date of authorisation of these consolidated financial statements, several new, but not yet effective, Standards and amendments to existing Standards, and Interpretations have been published by the IASB. None of these Standards or amendments to existing Standards have been adopted early by the Group. Management anticipates that all relevant pronouncements will be adopted for the first period beginning on or after the effective date of the pronouncement. New Standards, amendments and Interpretations not adopted in the current year have not been disclosed as they are not expected to have a material impact on the Group's financial statements.

NOTE 4 CRITICAL ACCOUNTING ESTIMATES AND ASSUMPTIONS

The preparation of the Annual Report requires the use of certain critical accounting estimates. It also requires management to exercise its judgement when applying the Group's accounting policies. These estimates and judgements are continually evaluated and are based on historical experience and other factors, including expectations of future events that may have a financial impact on the Group and that are believed to be reasonable under the circumstances.

The resulting accounting estimates will, by definition, seldom equal the related actual results. The estimates and assumptions that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities in future years.

The critical estimates and judgements applied in the preparation of the Annual Report are as follows:

(a) Recoverability of exploration and evaluation expenditure

Exploration expenditure for each area of interest is carried forward as an asset based on the provisions in AASB 6: Exploration for and Evaluation of Mineral Resources. Exploration expenditure which fails to meet at least one of the conditions outlined in AASB 6 is written off. Expenditure is not carried forward in respect of an area of interest unless the Group's rights of tenure are current. The ultimate recoupment of exploration and evaluation expenditure is dependent on the successful development and commercial exploitation, or alternatively, the sale of the respective area.

The Group assesses the recoverability of the carrying value of capitalised exploration and evaluation expenditure at each reporting date (or during the year should the need arise). In completing this assessment, regard is given to the Group's intentions with respect to proposed future exploration and development plans for individual areas, to the success or otherwise of activities undertaken in individual areas, to the likely success of future planned exploration activities, and to any potential plans for divestment of individual areas. Any required impairment of capitalised exploration and evaluation expenditure is completed based on the results of the assessment. Furthermore, for various areas of interest, exploration and evaluation activities may not have reached a stage to allow a reasonable assessment to be made regarding the existence of economically recoverable reserves. Accordingly, exploration and evaluation assets may be subject to further impairment in the future.

Management reviewed the impairment indicators set out in AASB 6 and concluded that no impairment charge was necessary during the year.

(ABN 75 117 387 354)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

NOTE 4 CRITICAL ACCOUNTING ESTIMATES AND ASSUMPTIONS (CONTINUED)

(b) Recoverability of goodwill and other intangible assets

The Group acquired 100% of the issued shares in Hydrocarbon Dynamics ("HCD") in April 2017, upon which the goodwill, intellectual property and patents were acquired. The intangible assets are indefinite useful life assets and are not amortised. The Board views the Group as two cash generating units ("CGUs"), being Exploration and HCD. Goodwill of \$3,282,299 (2019: \$3,282,299) and identifiable intangible assets of \$686,930 (2019: \$685,585) have been allocated to the HCD CGU.

The goodwill and identifiable intangible assets are required to be assessed for impairment annually (or earlier if impairment indicators exist) by comparing the carrying value of the CGU to which they have been allocated to its recoverable amount. The Board has determined the recoverable amount of the HCD CGU by assessing the fair value less costs of disposal (FVLCOD) of the underlying CGU. This market approach is based on the market capitalisation (number of shares multiplied by the quoted market price per share) of the Group on the Australian Securities Exchange (ASX) at balance date as a proxy for enterprise value. The recoverable amount uses both Level 1 and Level 3 inputs.

The Group's market capitalisation at balance date of \$11,424,996 (being the 439,422,918 shares outstanding at balance date multiplied by the share price of \$0.026/share at 31 December 2020) has been allocated to each of the Group's CGUs based on the relative fair value of the CGU, adjusted for unallocated financial assets.

As at 31 December 2020, the recoverable amount of the HCD CGU exceeded the carrying value of the non-financial assets of the CGU, resulting in no impairment being recognised.

A reasonable change in any of the assumptions applied, other than the share price of the Group, would not result in the carrying value of goodwill and identifiable intangible assets being impaired. The share price of the Group would need to reduce to approximately \$0.021/share for the goodwill and identifiable intangible assets to be impaired.

NOTE 5 REVENUE AND EXPENDITURE

(ABN 75 117 387 354)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Loss before income tax includes the following specific expenses:	\$	\$
(a) Revenue from contracts with customers		
Recognised at a point in time (sale of HCD product direct to customers)	181,595	180,555
	181,595	180,555
(b) Other income		
R&D rebate	265,380	-
Interest income	6,510	21,907
	271,890	21,907
(c) Director and employee related costs		
Salaries and wages expense	(727,541)	(844,289)
Defined contribution superannuation expense	(4,750)	(16,974)

2020

(732,291)

2019

(861,263)

(4)	Denreciation	and	impairment costs
(a)	Depreciation	and	impairment costs

Depreciation expense	(1,057)	(1 <i>,</i> 587)
Impairment expense – exploration and evaluation expenditure	-	(545,490)
	(1,057)	(547,077)

(e) Auditor's remuneration

During the year the following fees were paid or payable for services provided by Pitcher Partners, the auditor of the Group:

-	Auditing or reviewing the consolidated financial statements	(53,000)	(50,000)
		(53,000)	(50,000)

There were no non-audit services during the financial year (2019: Nil).

(ABN 75 117 387 354)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

NOTE 6 INCOME TAX EXPENSE

NOTE 6 INCOME TAX EXPENSE	2020	2019
	\$	\$
(a) Recognised in the Consolidated Statement of Profit or Loss and Other Comprehensive Income	•	•
Current tax expense	-	-
Deferred tax expense	-	-
Income tax expense	-	-
(b) Numerical reconciliation of income tax expense to prima facie tax on accounting profit		
Loss before income tax	(2,052,265)	(3,102,843)
Tax benefit at the Australian tax rate of 27.5% (2019: 27.5%)	564,373	853,282
Tax effect of amounts which are not deductible/(taxable) in calculating taxable income:		
Share options expensed	133,158	4,409
Section 40-800 deductions	(26,849)	(22,987)
Other non-deductible items	(871)	(2,047)
Capital and tax losses not recognised in deferred tax assets	(669,811)	(832,657)
	-	-

The deductible temporary differences and tax losses do not expire under current tax legislation. Deferred tax assets have not been recognised in respect of these items because it is not probable that future taxable profit will be available against which the Group can utilise the benefits from the deferred tax assets.

(c) Reconciliation of deferred tax assets/(liabilities)

Deferred tax asset	-	
The balance of deferred tax asset comprises:		
Deferred tax assets		
Tax losses	10,147,291	9,477,480
Provisions	25,477	11,393
	10,172,768	9,488,873
Deferred tax liabilities		
Exploration and evaluation expenditure	67,339	65,738
	67,339	65,738

(ABN 75 117 387 354)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

NOTE 6 INCOME TAX EXPENSE (CONTINUED)

NOTE O MODILE TAX ENDE (CONTINUED)	2020	2019
	\$	\$
Net deferred tax asset	10,105,429	9,423,135
Deferred tax asset not recognised	(10,105,429)	(9,423,135)
Deferred tax asset recognised in accounts	-	-
Movements in deferred tax asset		
Opening balance	-	-
Deferred tax (credited) to profit or loss	-	-
Closing balance	-	-
(d) Franking tax credits		
Franking credits available for subsequent financial years based on a tax rate of		
27.5% (2019: 27.5%)	-	-

The above amounts represent the balance of the franking account as at the end of the financial year, adjusted for:

- (i) franking credits that will arise from the payment of the amount of the provision for income tax;
- (ii) franking debits that will arise from the payment of dividends recognised as a liability at the reporting date; and
- (iii) franking credits that will arise from the receipt of dividends recognised as receivable at the reporting date.

(ABN 75 117 387 354)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

NOTE 7 CASH AND CASH EQUIVALENTS

	2020	2019
	\$	\$
Cash at bank	571,003	119,147
Cash on deposit	1,871,303	1,508,448
	2,442,306	1,627,595

The effective interest rate on short-term bank deposits was 0.3% (2019: 1.54%).

(a) Reconciliation of cash flow from operations

·		
Loss for the year	(2,052,265)	(3,102,843)
Depreciation expense	1,057	1,587
Share-based payments expense	484,211	16,033
Impairment expense	-	545,490
Bad and doubtful debts	4,872	-
Change in assets and liabilities		
(Increase)/decrease in trade and other receivables	(95,044)	(13,009)
(Increase)/decrease in inventories	(141,895)	124,826
(Increase)/decrease in other assets	(64,964)	(24,084)
Increase/(decrease) in trade and other payables	(121)	(327,388)
Increase/(decrease) in provisions	11,713	946
Net cash used in operating activities	(1,852,436)	(2,771,980)

(b) Non-cash financing and investing activities

Shares were issued in lieu of cash for services provided to the value of \$55,500 (2019: Nil).

(c) Credit standby arrangements

There are no credit or standby arrangements with financiers as at 31 December 2020 (2019: Nil).

NOTE 8 TRADE AND OTHER RECEIVABLES

(ABN 75 117 387 354)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

	2020	2019
	\$	\$
Trade receivables	144,132	20,339
GST receivable	12,154	17,961
Deposits	7,401	31,544
Other receivables	264	3,935
	163,951	73,779
NOTE 9 INVENTORIES		
	2020	2019
	\$	\$
Stock on hand	556,481	415,414
Provision for obsolete stock	-	(828)
	556.481	414.586

NOTE 10 EXPLORATION AND EVALUATION EXPENDITURE		
	2020	2019
	\$	\$
Exploration and evaluation expenditure	244,868	784,538
Less provision for impairment	-	(545,490)
	244,868	239,048

The carrying value of each working interest is as follows:		
Utah	244,686	239,048
	244,686	239,048
Movements in exploration and evaluation:		

Wovernents in exploration and evaluation.		
Balance at the beginning of the year	239,048	578,598
Exploration and evaluation expenditure during the year	27,421	209,025
Impairment expense	-	(545,490)
Foreign currency adjustment	(21,601)	(3,085)
Balance at the end of the year	244,868	239,048

(ABN 75 117 387 354)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

NOTE 11 INTANGIBLE ASSETS

	2020	2019
	\$	\$
Goodwill	3,282,899	3,282,899
Intellectual property	663,218	663,218
Patents	23,712	22,367
	3,969,829	3,968,484
Movements in intangible assets:		
Balance at the beginning of the year	3,968,484	3,960,920
Additions	1,345	7,564
Balance at the end of the year	3,969,829	3,968,484

The goodwill, intellectual property and patents were acquired as part of a business combination on 6 April 2017.

NOTE 12 TRADE AND OTHER PAYABLES

NOTE 12 TRADE AND OTHER PARADELS		
	2020	2019
	\$	\$
Trade creditors	117,186	85,638
Accrued expenses	58,265	70,025
Other payables	-	26,371
	175,451	182,034
NOTE 13 EQUITY		
Issued capital		
	2020	2019
	\$	\$
Issued capital	69,452,963	66,601,943
Capital raising costs	(3,815,027)	(3,744,819)
	65,637,936	62,857,124

Ordinary shares are classified as equity.

Incremental costs directly attributable to the issue of new shares are shown in equity as a deduction, net of tax, from the proceeds.

Ordinary shares entitle the holder to participate in dividends and the proceeds on winding up of the Group in proportion to the number of and amounts paid on the shares held. Every holder of ordinary shares present at a meeting in person or by proxy, is entitled to one vote, and upon a poll, each share is entitled to one vote.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

NOTE 13 EQUITY (CONTINUED)

	2020		2019	
Movement in number of shares:	No.	\$	No.	\$
Balance at the beginning of the year	282,077,778	66,601,943	211,557,944	64,133,749
Movements during the year:				
<u> </u>	EC 44E 000	046 400	70 540 024	2.460.404
Entitlement offer (i)	56,415,808	846,199	70,519,834	2,468,194
Private placement (ii)	6,570,000	98,550	-	-
Entitlement offer (iii)	69,379,171	1,387,571	-	-
Private placement (iv)	23,160,000	463,200	-	-
Consulting services (v)	1,820,161	55,500	-	-
	157,345,140	2,851,020	70,519,834	2,468,194
Balance at the end of the year	439,422,918	69,452,963	282,077,778	66,601,943

- (i) Shares issued under an entitlement offer on 4 May 2020 at an issue price of 1.5 cents per share.
- (ii) Shares issued under a placement on 7 May 2020 at an issue price of 1.5 cents per share.
- (iii) Shares issued under an entitlement offer on 23 November 2020 at an issue price of 2 cents per share.
- (iv) Shares issued under a placement on 27 November 2020 at an issue price of 2 cents per share.
- (v) Shares issued for services provided on 7th July, 7th October and 13th October 2020. The number of shares issued is determined based on the Volume Weighted Average Price over the last 20 trading days of the month as it relates to each monthly payment.

Reserves

Neserves	2020	2019
	\$	\$
Foreign currency translation reserve	(817,348)	(762,354)
Share based payments reserve	444,744	92,033
	(372,604)	(670,321)
Movement in foreign currency translation reserve:		
Balance at the beginning of the year	(762,354)	(765,129)
Foreign currency adjustment	(54,994)	2,775
Balance at the end of the year	(817,348)	(762,354)
Movement in share based payments reserve:		
Balance at the beginning of the year	92,033	304,042
Share based payments during the year	428,711	16,033
Share based payments expired and transferred to accumulated losses during the year	(76,000)	(228,042)
Balance at the end of the year	444,744	92,033

Foreign currency translation reserve

The foreign currency translation reserve records exchange differences arising on translation of foreign controlled entities.

(ABN 75 117 387 354)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

NOTE 13 EQUITY (CONTINUED)

Share based payments reserve

The share-based payments reserve is used to record the expense associated with options and performance rights granted to employees under equity-settled share-based payment arrangements. It is also used to record fair value of options granted for other goods and services as well as acquisition of other assets.

Share based payments

The share based payments expense included in the consolidated financial statements with respect to performance rights issued during the year and already issued in prior years is as follows:

	2020 \$	2019 \$
Consolidated Statement of Profit or Loss and Other Comprehensive Income		
Share-based payments expense	(484,211)	(16,033)
Comprised of:		
Performance rights	(400,961)	(16,033)
Shares in lieu of cash ^(a)	(83,250)	-
	(484,211)	(16,033)

(a) Shares were issued on 7 July 2020, 7 October 2020 and 13 October 2020 to consultants and directors in lieu of cash. The value is determined with reference to the value of invoices from creditors, with the number of shares issued determined based on the Volume Weighted Average Price over the last 20 trading days of the month as it relates to each monthly payment. \$27,750 remains outstanding at year-end and is included in the share-based payment reserve at balance date.

Performance Rights

The terms and conditions of each grant of performance rights during the year affecting remuneration in the current or a future period are shown in the table below.

Description	Grant date			Vesting date	Exercise price	Fair value	Performance condition
Incentive rights (a)	11-Dec-19	5,250,000	1 Sept 21	1-Sep-21	\$nil	\$0.02	Share price exceeding 15 cents for any consecutive 3 months prior to 1 Sept 2021.
Incentive rights (b)	11-Dec-19	5,250,000	1-Sept-21	1-Sep-21	\$nil	\$0.08	Sales revenue from the sale of Multi-Flow exceeding US\$900,000 over any 3 consecutive months prior to 1 Sept 2021
Incentive rights (c)	8-Jan-20	1,775,000	1-Sept-21	1-Sep-21	\$nil	\$0.03	Share price exceeding 15 cents for any consecutive 3 months prior to 1 Sept 2021.
Incentive rights (d)	8-Jan-20	1,775,000	1-Sept-21	1-Sep-21	\$nil	\$0.08	Sales revenue from the sale of Multi-Flow exceeding US\$900,000 over any 3 consecutive months prior to 1 Sept 2021

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

NOTE 13 EQUITY (CONTINUED)

The movements in the current year of the number of performance rights granted are as follows:

Description	Grant date	Vesting date	Number at beginning of year	Granted during the year	Number of rights vested	Number of rights lapsed	Number at end of year
Tranche (a)	11-Dec-19	1-Sep-21	5,250,000	-	-	-	5,250,000
Tranche (b)	11-Dec-19	1-Sep-21	5,250,000	-	-	-	5,250,000
Tranche (c)	8-Jan-20	1-Sep-21	-	1,775,000	-	-	1,775,000
Tranche (d)	8-Jan-20	1-Sep-21	-	1,775,000	-	-	1,775,000

The model inputs for performance rights outstanding at year end included:

		Vesting date	Exercise price	Share price at grant date	Expected volatility	Expected dividend yield	Risk free interest rate
Tranche (a) – market based	11-Dec-19	1-Sep-21	\$nil	\$0.08	72.5%	0%	0.82%
Tranche (b) – non- market based	11-Dec-19	1-Sep-21	\$nil	\$0.08		N/A	
Tranche (c) – market based	8-Jan-20	1-Sep-21	\$nil	\$0.08	87.0%	0%	0.78%
Tranche (d) – non- market based	8-Jan-20	1-Sep-21	\$nil	\$0.08		N/A	

The tranches with non-market conditions are valued using the share price at the date of issue, being \$0.08/share. The tranches with market conditions are valued using an option pricing model, as discussed in note 1(o).

Options

There is no formal employee share option plan. The number of options issued, the strike price of options issued and all other relevant terms have been set having regard to the persons position in the Group and level of experience. Such options vest according to the terms that are agreed at the time of grant between HCD and the employee. However, options normally vest either immediately upon grant or progressively within 12 months. Upon termination by either HCD or by the employee, all vested options remain the property of the employee, with no change to the life of the option. Upon termination by either HCD or the employee, all unvested options lapse.

The movements in the current year of the number of options granted are as follows:

Description	Grant date	Vesting date	Number at beginning of year	Granted during the year	Number of options exercised	Number of options lapsed	Number at end of year
Share options – tranche 2	1-Mar-17	1-Mar-18	1,750,000	-	ı	1,750,000	1
Share options – tranche 3	22-Sep-17	22-Sep-18	750,000	-	-	750,000	-

The share-based payment reserve of \$76,000 (\$228,042) relating to expired options was transferred to accumulated losses during the year.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

NOTE 13 EQUITY (CONTINUED)

Unlisted shares under option

The Group has the following unissued shares under option outstanding at the reporting date (2019: nil):

Description	Issue date	# of options	Expiry date	Issue price	Exercise price	Vested %
Share options for purchase of ordinary shares	23rd & 27th November 2020	46,269,645	31-Oct-22	\$nil	\$0.03	100%

The unissued shares under option do not carry voting rights.

No shares were issued during the reporting period or up to the date of this report on exercise of options.

NOTE 14 SEGMENT INFORMATION

Operating segments

The Group comprises the following two operating segments defined by divisions:

- Exploration division: comprising the exploration, development and production of oil and gas projects in the US;
 and
- Chemical division: comprising clean oil technology and business (HCD) worldwide.

Unallocated amounts include administrative operations undertaken in Australia to support the exploration, development and production of oil and gas projects worldwide and clean oil technology which includes the recharging of such costs via management fees.

31 December 2020	Chemical	Exploration	Total
Income	\$	\$	\$
Research and development rebate	265,380	-	265,380
Revenue from contracts with customers	181,595	-	181,595
Interest	34	61	95
Expenditure			
Director and employee related expenses	(601,563)	(43,544)	(645,107)
Other expenses	(934,696)	(6,074)	(940,769)
Segment result	(1,089,250)	(49,557)	(1,138,806)
Assets as at 31 December 2020	4,780,483	447,785	5,228,268
Liabilities as at 31 December 2020	(108,671)	(24,760)	(133,431)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

NOTE 14 SEGMENT INFORMATION (CONTINUED)

31 December 2019 ¹	Chemical	Exploration	Total
Income	\$	\$	\$
Revenue from contracts with customers	175,781	4,774	180,555
Interest	9	-	9
Expenditure			
Director and employee related expenses	(505,625)	(20,456)	(526,081)
Other expenses	(1,600,880)	(41,465)	(1,642,345)
Segment result	(1,930,715)	(57,147)	(1,987,862)
Assets as at 31 December 2019 ¹	4,469,438	402,428	4,871,866
Liabilities as at 31 December 2019 ¹	(86,250)	(28,234)	(114,484)

Reconciliation of reportable segment revenue, profit or loss, assets and liabilities and other material items:

recommended of reportable segment revenue, pront or loss, assets and nabil	31 December	31 December
	2020	2019 ¹
	\$	\$
Revenue:		
Total revenue for reportable segments	181,595	180,555
Elimination of inter-segment revenue		
Consolidated revenue	181,595	180,555
Interest income:		
Total other income for reportable segments	265,475	9
Unallocated amounts: interest income	6,415	21,898
Consolidated interest income	271,890	21,907
Director and employee related expenses:		
Total director and employee related expenses for reportable segments	(645,107)	(526,081)
Unallocated amounts: corporate costs	(87,184)	(335,182)
Consolidated director and employee related expenses	(732,291)	(861,263)
Other expenses:		
Total other expenses for reportable segments	(940,769)	(1,642,345)
Unallocated amounts: corporate costs	(832,690)	(801,697)
Consolidated other expenses	(1,773,459)	(2,444,042)
Loss for the period:		
Total loss for reportable segments	(1,138,806)	(1,987,862)
Elimination of inter-segment revenue	-	-
Unallocated amounts: interest income	6,415	21,898
Unallocated amounts: corporate costs	(919,874)	(1,136,879)
Consolidated loss for the period	(2,052,265)	(3,102,843)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

NOTE 14 SEGMENT INFORMATION (CONTINUED)

	31 December 2020 \$	31 December 2019 ¹ \$
Assets:	·	·
Total assets for reportable segments	5,228,268	4,871,866
Unallocated amounts: corporate assets	2,278,964	1,517,568
Consolidated assets	7,507,232	6,389,434
Liabilities:		
Total liabilities for reportable segments	(133,431)	(114,484)
Unallocated amounts: corporate liabilities	(105,566)	(108,979)
Consolidated liabilities	(238,997)	(223,463)

^{1.} the 2019 comparative has been restated for a change in the representation of the segment disclosure in the current year.

NOTE 15 FINANCIAL RISK MANAGEMENT

Overview

The Group's principal financial instruments comprise cash and cash equivalents, trade and other receivables, loans to and from subsidiaries, and trade and other payables. The main risks arising from the Group's financial assets and liabilities are interest rate risk, price risk, foreign currency risk, credit risk and liquidity risk. This note presents information about the Group's exposure to each of the above risks, its objectives, policies and processes for measuring and managing risk.

The Group regularly analyse financial risk exposure and evaluate treasury management strategies in the context of the most recent economic conditions and forecasts. Key risks are monitored and reviewed as circumstances change (e.g. acquisition of new entity or project) and policies are created or revised as required. The overall objective of the Group's financial risk management policy is to support the Group in meeting its financial targets, whilst minimizing potential adverse effects on financial performance.

Given the nature and size of the business and uncertainty as to the timing and amount of cash inflows and outflows, the Group does not enter into derivative transactions to mitigate the financial risks. In addition, the Group's policy is that no trading in financial instruments shall be undertaken for the purpose of making speculative gains. As the Group's operations change, the Directors will review this policy.

The Board of Directors has overall responsibility for the establishment and oversight of the risk management framework. The Board reviews and agrees policies for managing the Group's financial risks as summarised below.

The Group holds the following financial instruments which are carried at amortised cost unless otherwise stated:

	2020	2019
Financial assets	\$	\$
Cash and cash equivalents	2,442,306	1,627,595
Trade and other receivables	151,797	55,818
	2,594,103	1,683,413
Financial liabilities		
Trade and other payables	117,186	105,547
Borrowings	10,404	6,462
	127,590	112,009

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

NOTE 15 FINANCIAL RISK MANAGEMENT (CONTINUED)

Interest rate risk

Exposure to interest rate risk arises on cash and cash equivalents recognised at reporting date whereby a future change in interest rates will affect future cash flows or the fair value of fixed rate financial instruments.

A forward business cash requirement estimate is made, identifying cash requirements for the following period (generally up to one year) and interest rate term deposit information is obtained from a variety of banks over a variety of periods (usually one month up to six month term deposits) accordingly. The funds to invest are then scheduled in an optimised fashion to maximise interest returns.

Interest rate sensitivity

A sensitivity of 1% interest rate has been selected as this is considered reasonable given the current market conditions. A 1% movement in interest rates at the reporting date would have increased/(decreased) equity and profit or loss by the amounts shown below. This analysis assumes that all other variables, in particular foreign currency rates, remain constant. The analysis is performed on the same basis for 2019.

	Profit or Loss		Equity	
	1% increase	1% decrease	1% increase	1% decrease
2020	\$	\$	\$	\$
Cash and cash equivalents	24,423	(24,423)	24,423	(24,423)
2019				
Cash and cash equivalents	16,276	(16,276)	16,276	(16,276)

Liquidity risk

Liquidity risk is the risk that the Group will not be able to meet its financial obligations as they fall due. The Board's approach to managing liquidity is to ensure, as far as possible, that the Group will always have sufficient resources to meet its obligations when due.

Ultimate responsibility for liquidity risk management rests with the Board of Directors. The Group manages liquidity risk by monitoring forecast cash flows and ensuring that adequate funds from capital raising are maintained for future expenditure on working interest assets. This involves the monitoring of actual cash flows and matching the maturity profiles of financial assets and liabilities. This is based on the undiscounted cash flows of the financial liabilities based on the earliest date on which they are required to be paid.

The following table details the remaining contractual maturity for non-derivative financial liabilities.

		Total	
		Contractual	Carrying
	<1 year	Cash Flows	Amount
2020	\$	\$	\$
Trade and other payables	117,186	117,186	117,186
Borrowings	10,404	10,404	10,404
	127,590	127,590	127,590
2019			
Trade and other payables	105,547	105,547	105,547
Borrowings	6,462	6,462	6,462
	112,009	112,009	112,009
			·

(ABN 75 117 387 354)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

NOTE 15 FINANCIAL RISK MANAGEMENT (CONTINUED)

Foreign exchange risk

The Group is exposed to fluctuations in foreign currencies arising from the sale and purchases of goods and services in currencies other than the Group's presentation currency. The Group is also exposed to transactional currency movements. Such exposures arise from transactions which are denominated in currencies other than the functional currency of the Group. The Group's exposure to foreign currency risk primarily arises from the Group's operations overseas, namely in the United States.

The Group is also exposed to fluctuations in foreign currencies arising from the loans advanced by the Australian-based parent entity (denominated in AUD) to its United States based subsidiaries. Foreign currency gains/losses are recorded by the subsidiaries and are eliminated on consolidation via the foreign currency translation reserve.

The Group currently does not engage in any hedging or derivative transactions to manage foreign currency risk. The Group's policy is to generally convert its local currency to US dollars at the time of transaction.

Based on financial instruments held in a foreign currency at 31 December 2020 and 31 December 2019, had the Australian dollar strengthened/weakened by 10% there an increase/decrease in the US net assets by \$40,390 (2019: \$37,419) and an increase/decrease in the Canadian net assets by \$20,453 (2019: \$4,675). The exposure to foreign exchange is considered to be immaterial as the majority of the foreign liabilities relate to related party payables which are eliminated on consolidation.

Credit risk

Credit risk is the risk of financial loss to the Group if a customer or counterparty to a financial instrument fails to meet its contractual obligations. This arises principally from cash and cash equivalents and trade and other receivables. The Group exposure and the credit ratings of its counterparties are continuously monitored by the Board of Directors.

The maximum exposure to credit risk at the reporting date is the carrying amount of the financial assets as summarised in the table above.

Credit risk exposures

Trade and other receivables

Trade and other receivables comprise receivables from the sale of products and services to predominantly unrelated entities. All potential customers are rated for credit worthiness, taking into account their size, market position and financial standing. The receivable balances are monitored on an ongoing basis. The Group's exposure to bad debts is not significant. At 31 December 2020 \$144,132, (2019: \$4,872l) of the Group's receivables were past due.

Cash and cash equivalents, restricted cash and term deposits

The Group has a significant concentration of credit risk with respect to cash deposits with banks. However, significant cash deposits are invested across three to four banks to mitigate credit risk exposure to a particular bank. AAA rated banks are mostly used and non AA banks are utilised where commercially attractive returns are available.

The Group does not have any material credit risk exposure to any single receivable or Group of receivables under arrangements entered into by the Group.

Price risk

Price risk relates to the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in market prices.

The Group is exposed to commodity price risk. Commodity prices can be volatile and are influenced by factors beyond the Group's control. As the Group is currently engaged in exploration, no sales of commodities are forecast for the next 12 months, and accordingly, no hedging or derivative transactions have been used to manage commodity price risk.

(ABN 75 117 387 354)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

NOTE 15 FINANCIAL RISK MANAGEMENT (CONTINUED)

Capital risk management

When managing capital, management's objective is to ensure the Group continues as a going concern and to maintain a structure that ensures the lowest cost of capital available and to ensure adequate capital is available for exploration and evaluation of tenements. In order to maintain or adjust the capital structure, the Group may seek to issue new shares.

Consistent with others in the industry, the Group monitors capital on the basis of forecast exploration and evaluation expenditure required to reach a stage which permits a reasonable assessment of the existence or otherwise of an economically recoverable reserve. Total capital is calculated as 'equity' as shown in the Consolidated Statement of Financial Position.

There were no changes in the Group's approach to capital management during the year. The Group is not subject to externally imposed capital requirements.

Fair value measurement

The fair value of financial assets and financial liabilities must be estimated for recognition and measurement and for disclosure purposes.

Fair value hierarchy

AASB 7 Financial Instruments: Disclosures requires disclosure of fair value measurements by level as determined by the following fair value measurement hierarchy:

- (a) Level 1: quoted prices (unadjusted) in active markets for identical assets or liabilities;
- (b) Level 2: inputs other than quoted prices included within level 1 that are observable for the asset or liability, either directly (as prices) or indirectly (derived from prices); and
- (c) Level 3: inputs for the asset or liability that are not based on observable market data (unobservable inputs).

Other fair value disclosures

The Directors consider that the carrying amount of trade and other receivables and trade and other payables recorded in the consolidated financial statements approximates their fair values due to their short-term nature.

The recoverable amount of the HCD CGU has been calculated using the fair value less costs of disposal method, which has been assessed using both Level 1 and Level 3 inputs. Refer to note 4(b) for further information.

NOTE 16 EARNINGS PER SHARE

	2020	2019
	\$	\$
(a) Reconciliation of earnings used in calculating basic and diluted earnings per share:		
Loss for the year	(2,052,265)	(3,102,843)
Loss used in the calculation of the basic and dilutive earnings per share	(2,052,265)	(3,102,843)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

NOTE 16 EARNINGS PER SHARE (CONTINUED)

	2020 \$	2019 \$
(b) Weighted average number of ordinary shares used as the denominator:		
Weighted average number of ordinary shares used in calculating basic earnings per share	333,500,151	245,164,182
Adjustments for the calculation of diluted earnings per share:		
Option / performance rights	-	-
_	-	-
Weighted average number of ordinary shares used in calculating dilutive earnings per	333,500,151	245,164,182

Options and performance rights are considered to be "potential ordinary shares" and have been included in the determination of diluted earnings per share to the extent to which they are dilutive. Details relating to options and performance rights are set out in note 13.

NOTE 17 COMMITMENTS

There are no commitments as at 31 December 2020 (2019: Nil).

NOTE 18 CONTINGENT LIABILITIES

The Group is party to a royalty agreement with Director Mr Nicholas Castellano, whereby the Group is obliged to pay a monthly royalty equal to the greater of:

- (a) US\$20,000; subject to adjustment as described below; or
- (b) 5% of net revenue (gross revenue minus taxes and commissions) from the HCD business.

Until the amount of US\$19.5 million is paid in full.

The minimum royalty instalment described above was adjusted due to a material change in the business, in which a customer ("the Customer") elected to stop using Multi-Flow, causing a reduction in ongoing revenue. The parties agreed that the minimum royalty instalment be reduced from USD\$20,000 per month to USD\$16,000 per month, until HCD has entered into a firm contract with either:

- (a) the Customer and/or a related party of the Customer for the sale by HCD of at least 140 drums of Multi-Flow per month for a minimum period of 6 months; or
- (b) one or more credible third parties other than the Customer and/or a related party of the Customer for the sale by the Group of at least 35 drums of Multi-Flow per month for a minimum period of 6 months.

The royalty agreement is non-recourse and may be terminated by either party at any time without penalty. Royalty payments to date have been expensed as incurred.

NOTE 19 SUBSEQUENT EVENTS

In the opinion of the directors, there has not arisen in the interval between the end of the financial year and the date of the report any other matter or circumstance that has significantly affected, or may significantly affect the Group's operations, results or the state of affairs in future financial years.

(ABN 75 117 387 354)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

NOTE 20 RELATED PARTY DISCLOSURE

Related party transactions

Parent entity

The legal parent entity is Hydrocarbon Dynamics Limited. Details of the controlled entities are set out in note 21.

Transactions with related parties

During the year, the Group paid the following amounts to related party entities:

- \$12,000 of board fees to Spring Street Holdings Pty Ltd, a company associated with Ray Shorrocks.
- \$12,000 of consulting fees (in lieu of board fees) to True Success Pty Ltd, a company associated with Allan Ritchie.
- \$197,667 of salaries and wages and \$280,826 of royalties to NC2 LLC, a company associated with Nicholas Castellano. The Group has an outstanding payable of \$24,333 to NC2 LLC at balance date.
- \$136,500 was invoiced from Lowell Accounting Services for accounting and secretarial services and rent, an entity of which Stephen Mitchell and Julie Edwards are Directors. \$86,400 has been settled by payment of cash, \$42,750 has or will be settled via the issuance of shares and \$7,350 remains payable at balance date.

Transactions between related parties are on normal commercial terms and conditions no more favourable than those available to other parties unless otherwise stated.

Transactions with controlled entities

Transactions between Hydrocarbon Dynamics Limited and its subsidiaries during the year included:

- loans advanced to/repayments from subsidiaries; and
- investments in subsidiaries.

The loans and investments have been impaired so that the net assets of the parent do not exceed the net assets of the Group. The loans to subsidiaries are interest free, repayable in cash at call and are unsecured.

Key management personnel

Key management personnel includes:

Stephen Mitchell Non-Executive Chairman (Executive Chairman to 31 March 2020; Non-Executive Chairman

from 1 April 2020)

Nicholas Castellano Executive Director
Ray Shorrocks Non-executive Director
Allan Ritchie Non-executive Director
Andrew Seaton Non-executive Director

Bill Tarantino CEO – Chemical Division (appointed 2 January 2020)

Julie Edwards¹ Company Secretary

1. Julie Edwards is remunerated via an external accounting firm, Lowell Accounting Services Pty Ltd.

	2020	2019
	\$	\$
Short-term benefits	641,908	798,841
Long-term benefits	4,750	1,655
Post-employment benefits	2,064	16,973
Equity-based payments	409,651	16,033
	1,058,373	833,502

Refer to the Remuneration Report in the Directors' Report for further information.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

NOTE 20 RELATED PARTY DISCLOSURE (CONTINUED)

Parent entity disclosures	2020 \$	2019 \$
ASSETS		
Current assets	2,278,965	1,609,043
Non-current assets	5,094,695	4,665,770
TOTAL ASSETS	7,373,660	6,274,813
LIABILITIES		
Current liabilities	100,095	105,576
Non-current liabilities	5,330	3,266
TOTAL LIABILITIES	105,425	108,842
NET ASSETS	7,268,235	6,165,971
EQUITY		
Issued capital	65,649,289	62,857,124
Reserves	444,744	92,033
Accumulated losses	(58,825,798)	(56,783,186)
TOTAL EQUITY	7,268,235	6,165,971
COMPREHENSIVE LOSS FOR THE YEAR		
Loss for the year	(2,107,269)	(8,499,974)
TOTAL COMPREHENSIVE LOSS FOR THE YEAR	(2,107,269)	(8,499,974)

The parent entity did not have any contingent liabilities, contractual commitments or guarantees at 31 December 2020 (2019: nil). The parent entity's accounting policies are the same as the group.

NOTE 21 GROUP STRUCTURE

The consolidated financial statements incorporate the assets, liabilities and results of the following subsidiaries in accordance with the accounting policy described in note 3(a).

			Equity h	olding %1
Name of entity	Country of	Class of	2020	2019
	incorporation	shares		
HCD Brazil Pty Ltd	Australia	Ordinary	100	100
Hydrocarbon Dynamics Australia Pty Ltd	Australia	Ordinary	100	100
HCD Canada Ltd	Canada	Ordinary	100	100
HCDI Holdings Ltd	Hong Kong	Ordinary	100	100
Hydrocarbon Dynamics Ltd	Hong Kong	Ordinary	100	100
HCD Offshore SDN BND	Malaysia	Ordinary	100	100
Hydrocarbon Dynamics UK Ltd	Canada	Ordinary	100	100
HCD Blending LLC	USA	Ordinary	100	100
Indago Oil and Gas Inc	USA	Ordinary	100	100
TOC LLC dba Triopco LLC	USA	Ordinary	100	100
Trimissco LLC	USA	Ordinary	100	100

^{1.} percentage of voting power is in proportion to ownership interest.

(ABN 75 117 387 354)

DIRECTORS' DECLARATION

In the Directors' opinion:

- 1. the attached consolidated financial statements and notes are in accordance with the *Corporations Act 2001*, including:
 - a. complying with Australian Accounting Standards (including the Australian Accounting Interpretations) and the *Corporations Regulations 2001*; and
 - b. giving a true and fair view of the financial position as at 31 December 2020 and of the performance for the year ended on that date of the Group.
- 2. As stated in Note 1, the consolidated financial statements also comply with International Financial Reporting Standards.
- 3. There are reasonable grounds to believe that the Group will be able to pay its debts as and when they become due and payable.

The Directors have been given the declarations by the Managing Director and Financial Controller required by section 295A of the *Corporations Act 2001*.

This declaration is made in accordance with a resolution of the Board of Directors.

Stephen Mitchell

Chairman

Melbourne, Victoria

Sputrus

31 March 2021



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INDEPENDENT AUDITOR'S REPORT TO THE MEMBERS OF HYDROCARBON DYNAMICS LIMITED

Report on the Audit of the Financial Report

Opinion

We have audited the financial report of Hydrocarbon Dynamics Limited ("the Company") and its controlled entities ("the Group"), which comprises the consolidated statement of financial position as at 31 December 2020, the consolidated statement of profit or loss and other comprehensive income, the consolidated statement of changes in equity and the consolidated statement of cash flows for the year then ended, and notes to the financial statements, including a summary of significant accounting policies, and the directors' declaration.

In our opinion, the accompanying financial report of the Group is in accordance with the *Corporations Act 2001*, including:

- (a) giving a true and fair view of the Group's financial position as at 31 December 2020 and of its financial performance for the year then ended; and
- (b) complying with Australian Accounting Standards and the Corporations Regulations 2001.

Basis for Opinion

We conducted our audit in accordance with Australian Auditing Standards. Our responsibilities under those standards are further described in the *Auditor's Responsibilities for the Audit of the Financial Report* section of our report. We are independent of the Group in accordance with the auditor independence requirements of the *Corporations Act 2001* and the ethical requirements of the Accounting Professional and Ethical Standards Board's APES 110 *Code of Ethics for Professional Accountants (including Independence Standards)* ("the Code") that are relevant to our audit of the financial report in Australia. We have also fulfilled our other ethical responsibilities in accordance with the Code.

We confirm that the independence declaration required by the *Corporations Act 2001*, which has been given to the directors of the Group, would be in the same terms if given to the directors as at the time of this auditor's report.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Material Uncertainty Related to Going Concern

We draw attention to note 2 in the financial report which states that the ability of the Group to continue as a going concern is dependent on the its ability to successfully raise funds through debt, equity or farm-out, the successful exploration and subsequent exploitation of its working interests, or the commercialisation of the its HCD product.

As stated in note 2, these events or conditions indicate that a material uncertainty exists that may cast significant doubt on the Group's ability to continue as a going concern. Our opinion is not modified in respect of this matter.

Brisbane Sydney Newcastle Melbourne Adelaide Perth



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Key Audit Matters

Key audit matters are those matters that, in our professional judgement, were of most significance in our audit of the financial report of the current period. These matters were addressed in the context of our audit of the financial report as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on these matters.

Key audit matter

How our audit addressed the matter

IMPAIRMENT OF INTANGIBLE ASSETS

Refer to Note 4 and 11: Goodwill and Intangible assets

The Group acquired HCDI Holdings Limited ('HCD') in 2017 resulting in the recognition of goodwill and intellectual property with the carrying value recognised in the Group's consolidated statement of financial position as at 31 December 2020 of \$3,282,899 and \$663,218 respectively.

As these balances constitute 53% of the total assets of the Group and the use of key estimates and judgments in the assessment of any potential impairment, this is a key area of audit focus. Our procedures included, amongst others:

- Understanding and evaluating the controls pertaining to goodwill and intellectual property;
- Assessing management's determination of the Group's Cash Generating Units ("CGUs") based on our understanding of the Group's business and internal reporting;
- Evaluating management's impairment assessment of goodwill and other identifiable intangible assets by challenging the key inputs and assumptions used by management;
- Challenging the appropriateness of the market approach (fair value less costs of disposal) valuation method used to determine the fair value in accordance with AASB 13 Fair Value;
- Assessing the carrying value of the Group's CGU to which goodwill and identifiable intangible assets have been allocated with regard to the Group's enterprise value at 31 December 2020; and
- Assessing the adequacy of the Group's disclosures and impairment assessment methodology disclosed in note 4 and 11 to the financial report.

Other Information

The directors are responsible for the other information. The other information comprises the information included in the Group's annual report for the year ended 31 December 2020, but does not include the financial report and our auditor's report thereon.

Our opinion on the financial report does not cover the other information and accordingly we do not express any form of assurance conclusion thereon.

In connection with our audit of the financial report, our responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the financial report or our knowledge obtained in the audit or otherwise appears to be materially misstated.

If, based on the work we have performed, we conclude that there is a material misstatement of this other information, we are required to report that fact. We have nothing to report in this regard.



Responsibilities of the Directors for the Financial Report

The directors of the Group are responsible for the preparation of the financial report that gives a true and fair view in accordance with Australian Accounting Standards and the *Corporations Act 2001* and for such internal control as the directors determine is necessary to enable the preparation of the financial report that gives a true and fair view and is free from material misstatement, whether due to fraud or error. In preparing the financial report, the directors are responsible for assessing the ability of the Group to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless the directors either intend to liquidate the Group or to cease operations, or has no realistic alternative but to do so.

Auditor's Responsibilities for the Audit of the Financial Report

Our objectives are to obtain reasonable assurance about whether the financial report as a whole is free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with the Australian Auditing Standards will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of this financial report.

As part of an audit in accordance with the Australian Auditing Standards, we exercise professional judgement and maintain professional scepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial report, whether due to
 fraud or error, design and perform audit procedures responsive to those risks, and obtain audit
 evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not
 detecting a material misstatement resulting from fraud is higher than for one resulting from error,
 as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override
 of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit
 procedures that are appropriate in the circumstances, but not for the purpose of expressing an
 opinion on the effectiveness of the Group's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by the directors.
- Conclude on the appropriateness of the directors' use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Group's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial report or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Group to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial report, including the
 disclosures, and whether the financial report represents the underlying transactions and events
 in a manner that achieves fair presentation.
- Obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities within the Group to express an opinion on the financial report. We are responsible for the direction, supervision and performance of the Group audit. We remain solely responsible for our audit opinion.

We communicate with the directors regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide the directors with a statement that we have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, actions taken to eliminate threats or safeguards applied.



From the matters communicated with the directors, we determine those matters that were of most significance in the audit of the financial report of the current period and are therefore the key audit matters. We describe these matters in our auditor's report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, we determine that a matter should not be communicated in our report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.

REPORT ON THE REMUNERATION REPORT

Opinion on the Remuneration Report

We have audited the Remuneration Report included on pages 5 to 12 of the directors' report for the year ended 31 December 2020. In our opinion, the Remuneration Report of Hydrocarbon Dynamics Limited, for the year ended 31 December 2020, complies with section 300A of the *Corporations Act* 2001.

Responsibilities

The directors of the Group are responsible for the preparation and presentation of the Remuneration Report in accordance with section 300A of the *Corporations Act 2001*. Our responsibility is to express an opinion on the Remuneration Report, based on our audit conducted in accordance with Australian Auditing Standards.

PITCHER PARTNERS

Pitcher Partners

JASON EVANS

Partner Brisbane, Queensland 31 March 2021

(ABN 75 117 387 354)

SHAREHOLDER INFORMATION

Additional information required by the Australian Securities Exchange Ltd Listing Rules and not disclosed elsewhere in this report is as follows. The information is current as at 17 March 2021.

1. Substantial shareholders

The number of securities held by substantial shareholders and their associates are set out below:

Fully paid Ordinary Shares

Name	Number	%
Stephen Mitchell	44,780,499	10.17
Sterling McGregor Super Pty Ltd	38,782,790	8.81

2. Number of security holders and securities on issue

Hydrocarbon Dynamics Limited has issued the following equity securities:

440,290,105 fully paid ordinary shares held by 1,799 shareholders; 14,050,000 unlisted Incentive Rights, expiring 1 September 2021, held by 10 rights holders 46,269,645 unlisted options, expiring 31 October 2022, held by 318 option holders

3. Voting rights

Ordinary shares

The voting rights attached to ordinary shares are that on a show of hands, every member present, in person or proxy, has one vote and upon a poll, each share shall have one vote.

Incentive Rights and Options

The holders of Incentive Rights and Options do not have any voting rights on the Rights held by them.

4. Distribution of security holders

Quoted securities

Fully paid ordinary shares

Category	Fully paid ordinary shares		
	Holders	Shares	%
1 - 1,000	411	194,010	0.04
1,001 - 5,000	316	829,743	0.19
5,001 - 10,000	104	774,816	0.18
10,001 - 100,000	581	23,149,024	5.26
100,001 and over	387	415,342,513	94.33
Total	1799	440,290,106	100.00

(ABN 75 117 387 354)

Unquoted securities

Incentive Rights

Category	Incentive Rights		
	Holders	Options	%
1 - 1,000	0	0	0.00
1,001 - 5,000	0	0	0.00
5,001 - 10,000	0	0	0.00
10,001 - 100,000	0	0	0.00
100,001 and over	10	14,050,000	100.00
Total	10	14,050,000	100.00

Incentive Rights

Category	Incentive Rights		
	Holders	Options	%
1 - 1,000	29	7,864	0.02
1,001 - 5,000	55	165,500	0.36
5,001 - 10,000	30	237,876	0.51
10,001 - 100,000	119	5,593,627	12.09
100,001 and over	85	40,264,778	87.02
Total	318	46,269,645	100.00

5. Unmarketable parcel of shares

The number of security investors holding less than a marketable parcel of securities is 1071 with a combined total of 6,050,954 securities.

(ABN 75 117 387 354)

6. Twenty largest shareholders of quoted equity securities

Fully paid ordinary shares

Details of the 20 largest shareholders by registered shareholding are:

	Name	No. of shares	%
1	STIRLING MCGREGOR SUPER PTY LTD <stirling a="" c="" mcgregor="" super=""></stirling>	38,782,790	8.81%
2	MALANGI PTY LTD	37,580,497	8.54%
3	EQUITY TRUSTEES LIMITED <lowell a="" c="" fund="" resources=""></lowell>	17,438,107	3.96%
4	WHEELBARROW INVESTMENTS PTY LTD <william a="" burrell="" c="" family=""></william>	14,427,202	3.28%
5	CHAG PTY LTD	14,170,834	3.22%
6	HSBC CUSTODY NOMINEES (AUSTRALIA) LIMITED	9,568,416	2.17%
7	YAVERN CREEK HOLDINGS PTY LTD	9,200,000	2.09%
8	G & J SUPER FUND PTY LTD <g &="" a="" c="" fund="" j="" super=""></g>	8,192,784	1.86%
9	MUTUAL TRUST PTY LTD	7,969,152	1.81%
10	MR S MITCHELL & MRS S MITCHELL <s a="" c="" fund="" mitchell="" p="" super=""></s>	7,200,002	1.63%
11	SPRING STREET HOLDINGS PTY LTD	6,169,230	1.40%
12	TITUS ENERGY LIMITED	6,168,140	1.40%
13	MR PETER ANDREW PROKSA	6,150,000	1.40%
14	BUDERIM PANORAMA PTY LTD	6,019,170	1.37%
15	SAYERS INVESTMENTS (ACT) PTY LIMITED <the 2="" a="" c="" invest="" no="" sayers=""></the>	5,170,000	1.17%
16	MR CHARLES TULLOCH ARTHUR	4,000,000	0.91%
17	MR NICK CARTER	3,717,442	0.84%
18	RAAR CAPITAL GROUP PTY LTD	3,644,376	0.83%
19	MR J CLARK & MRS R CLARK <j a="" c="" f="" h="" personal="" s=""></j>	3,557,898	0.81%
20	MR ADRIAN ELIAS & MRS PEITA <ape a="" c="" fund="" super=""></ape>	3,500,000	0.79%
	Total	212,626,040	48.29%

(ABN 75 117 387 354)

CORPORATE DIRECTORY

Registered and Principal Office

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Auditors

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Stock Exchange

Australian Securities Exchange Limited (ASX)

Code: HCD

Australian Company Number

117 387 354

Australian Business Number

75 117 387 354